

Supervisor Enterprise Edition

Installation Manual Heat-Tracing Controller Configuration and Monitoring Software

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1.1 WELCOME

The nVent RAYCHEM Supervisor heat-tracing controller configuration and monitoring software provides a graphical user interface for RAYCHEM communications and controller products. The software supports Elexant Series controller, the NGC series controllers, 780 Series/GCC-9000 Group Communications Controllers, RAYCHEM T2000 AC 2000+ alarm/communications interface cards, RAYCHEM 910/915/920 Heat Trace Controllers and/or legacy RAYCHEM Controllers (except the RAYCHEM 200N) using the Modbus[®] protocol.

The software allows the user to configure and monitor any RAYCHEM controller which has the appropriate communications interface installed from one central location. The software also incorporates advanced features such as data logging and trending, batch and recipe processing, scheduled events, etc.

Please refer to the RAYCHEM Supervisor Operations Manual (H57576) for more information on features and capabilities.

1.2 VITAL INFORMATION



Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. nVent makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use.

nVent's only obligations are those in the nVent Standard Terms and Conditions of Sale for this product, and in no case will nVent or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, nVent reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.

1.3 USER RESPONSIBILITIES

The performance, reliability and safety of your heat-tracing system depend on proper design, selection and installation. The RAYCHEM Supervisor program will help you configure and monitor a system that meets your requirements, but it is only a tool. It assumes that your input is accurate, that you are familiar with heat-tracing system design and configuration, and that you will ensure that all components of the heat-tracing system are installed, maintained and used as intended. The configuration of the RAYCHEM Supervisor program should be reviewed by a knowledgeable engineer to ensure it is appropriate for your application. Additional information relating to safety, design and installation is contained in Design Guides, Installation Manuals, Data Sheets, and other literature available from nVent. Be sure to consult these documents as needed.

1.4 SAFETY WARNINGS

There are important safety warnings shipped with our products and printed in our literature. Be sure to read and follow them to reduce the risk of fire, shock or personal injury. If you have any questions, contact your local Representative or nVent directly.

1.5 TECHNICAL SUPPORT

In North America, contact directly at:

nVent Thermal Management

7433 Harwin Drive Houston, TX 77036 Tel: 800-545-6258 Tel: 650-216-1526 Fax: 800-527-5703 Fax: 650-474-7711 email: Thermal.TechSupport@nvent.com nVent Thermal Management at: Europe, Middle East, Africa nVent Thermal Management Romeinse straat 14 3001 Leuven Belgium / België / Belgique Tel: +32 16 213 511 Fax: +32 16 213 603

Or for other parts of the world, contact

The software allows the user to configure and monitor any RAYCHEM controller installed in the field which has the appropriate communications interface installed from one central location. The software also supports alarm monitoring, with the ability to acknowledge and clear alarms.

2.1 SYSTEM REQUIREMENTS

The nVent RAYCHEM Supervisor Enterprise software is designed to run in a networked environment using one or more computers. The software is composed of three components, and it is assumed that all computers are networked together on a corporate intranet. Implementation details of this type of networking environment are beyond the scope of this document. The three components of the software are:

- nVent RAYCHEM Supervisor Master Server
- nVent RAYCHEM Supervisor Slave Server
- nVent RAYCHEM Supervisor Client

The nVent RAYCHEM Supervisor Master Server and nVent RAYCHEM Supervisor Slave Server applications must be installed and run on separate computers. nVent RAYCHEM Supervisor Slave Servers are optional; however you may add new nVent RAYCHEM Supervisor Slave Servers to your EHT system as required. Using nVent RAYCHEM Supervisor Slave Servers allows your EHT system to distribute the communications workload. For example, instead of one computer providing the monitoring for all devices in your system, one or more slave servers can be configured to monitor for alarms at the same time.

The nVent RAYCHEM Supervisor Client provides the user interface and can be installed on any computers that require user interaction with the system. Once the nVent RAYCHEM Supervisor Master Server, nVent RAYCHEM Supervisor Slave Server(s) and nVent RAYCHEM Supervisor Client(s) are installed, multiple users can access the nVent RAYCHEM Supervisor EHT system from different client computers simultaneously.

The computer hardware required to run nVent RAYCHEM Supervisor Master Server, nVent RAYCHEM Supervisor Slave Server and nVent RAYCHEM Supervisor Client are outlined in the following sections.

2.1.1 TYPICAL SYSTEM ARCHITECTURES

While many RAYCHEM Supervisor system architectures are possible, they will generally fall into one of three types, and these in turn will use either SQL Express or SQL Server for their databases. This installation manual discusses the RAYCHEM Supervisor Enterprise installation only, which uses SQL Server. For RAYCHEM Supervisor installation which uses SQL Express, refer to the Installation Manual for RAYCHEM Supervisor Standard (H57988).

 Single Master Server, no Slave Servers, Single User (Client). This type of installation will typically use the SQL Express database ("Standard") version of RAYCHEM Supervisor.



Figure 2.1.1 Typical single master, single client system

 Single Master Server, no Slave Servers, Multiple Users (Clients). This architecture may be SQL EXPRESS -based as long the number of simultaneous users is limited to a maximum of four. Due to SQL EXPRESS database limitations, no performance guarantees can be made in all situations with this many Users. For example, if several data trending or batch jobs are being run simultaneously, only one or two Users may be able to connect without impacting system performance. Applications that require more Users or the ability to have a larger number of batch/trending/configuration jobs must use the SQL-based Enterprise version of RAYCHEM Supervisor.



Figure 2.1.2 Typical single master, multiple client system

Single Master Server, one or more Slave Servers, Multiple Users (Clients). This topology represents
the largest system type, where multiple computers are used to distribute the communications and
processing workload. This type of installation will always use the SQL-based Enterprise version of
RAYCHEM Supervisor and will support a large number of simultaneous Users and data processing
jobs.



Figure 2.1.3 Typical single master, multi-slave server, multiple client system

2.1.2 RAYCHEM SUPERVISOR MASTER SERVER

To effectively use the software, the following configuration is required:

- A Quad core© 2.0 GHz or faster (Recommended), Pentium©4 1 GHz (Minimum) computer. Large systems using multiple Slave Servers should consider the use of a higher speed/ multiple processor Master Server computer for best performance. Consult nVent Applications Engineering for guidance
- A hard disk with at least 4 gigabytes of free space (Recommended), 2 gigabytes (Minimum)
- 8 gigabytes of RAM (Recommended), 1 gigabyte of RAM (Minimum)
- · One or more available serial ports
- A mouse or other compatible pointing device
- SVGA display with 800x600 resolution
- Standard configurations using Microsoft SQL Express: Windows® XP Pro SP3, Windows Vista, Windows 7, Windows 8 or Windows 10, either 32 or 64 bit
- Multi-User/Server Capable configurations using MS SQL Server: Microsoft Windows® Server 2000 through 2017
- Microsoft .NET® Framework version 4.0
- Network connectivity

2.1.3 RAYCHEM SUPERVISOR SLAVE SERVER

The following configuration applies to optional Slave Server computer(s):

- A Quad core© 2.0 GHz or faster Recommended), Pentium©4 1 GHz (Minimum) computer. Large systems using multiple Slave Servers should consider the use of a higher speed/ multiple processor Master Server computer for best performance. Consult nVent Applications Engineering for guidance
- A hard disk with at least 4 gigabytes of free space (Recommended), 2 gigabytes (Minimum)
- 8 gigabytes of RAM (Recommended), 1 gigabyte of RAM (Minimum)
- · One or more available serial ports
- A mouse or other compatible pointing device
- SVGA display with 800x600 resolution
- Standard configurations using SQL EXPRESS : Windows XP SP3, Windows Vista SP1, Windows Server 2003 SP2, Windows Server 2008, Windows 7, 8 or 10
- Multi-User/Server Capable configurations using SQL Server: Windows Server 2003, 2008, 2012, 2014, 2016, or 2017, Windows Vista SP1, Windows 7, Windows 8, or Windows 10 on computer where the SQL Server is installed
- Microsoft .NET® Framework version 4.0
- Network connectivity

2.1.4 RAYCHEM SUPERVISOR CLIENT

The following configuration applies to Client computer(s):

- A Quad core© 1GHz or faster (Recommended), Pentium©4 1 GHz (Minimum) IBM compatible personal computer
- A hard disk with at least 1 gigabyte of free space Recommended), 500 megabytes (Minimum)
- 2 gigabytes of RAM (Recommended), 1 gigabyte of RAM (Minimum)
- One or more available serial ports
- A mouse or other compatible pointing device
- SVGA display with 800x600 resolution
- Windows XP SP3, Windows Server 2003, 2008, 2012, 2014, 2016, or 2017, Windows Vista SP1, Windows 7, Windows 8 or Windows 10
- Microsoft .NET Framework version 4.0
- Network connectivity

SECTION 3 - INSTALLING RAYCHEM SUPERVISOR

RAYCHEM Supervisor's installation wizard will install the RAYCHEM Supervisor software on your PC's hard disk drive. You must already have Windows XP, Windows Server 2003, 2008, 2012, 2014, or 2016, Windows Vista SP1, Windows 7, Windows 8 or Windows 10 installed on your computer. If you are using an SQL database version [RAYCHEM Supervisor Enterprise Edition], the computer on which the SQL Server is installed must have Windows Server 2003, 2008, 2012, 2014, or 2016, Windows Vista SP1, Windows 7, Windows 8 or Windows 10 pre-installed.



Note: To install Windows, follow the installation procedure provided by Microsoft. Familiarity with the Windows environment is highly recommended, and it is assumed throughout this manual. Knowledge of the Windows environment will make this program easier to use and understand.

If you are upgrading an existing RAYCHEM Supervisor installation which is version 1.30 or earlier, please refer to Section 15.3 "Converting RAYCHEM Supervisor Databases" in the RAYCHEM Supervisor Operations Manual (H57576) for information on how to convert your existing database.

Note: Components should be installed in the order in which they are presented in this document.

3.1 QUICK START GUIDE

The following provides a brief outline of the installation process for the Enterprise (SQL) version of RAYCHEM Supervisor. Detailed instructions may be found in each of the Sections that are referenced within the individual steps:

3.1.1 ENTERPRISE (SQL SERVER) RAYCHEM Supervisor INSTALLATIONS:

- 1. Setup the Master Computer:
 - A. Install the SQL Server (see Section 3.2, 3.4, 3.6, or 3.8).
 - B. Install the RAYCHEM Supervisor Master Server application (see Section 3.8).
 - C. (Optional but Recommended) Install the RAYCHEM Supervisor Client software if you want the user to be able to interact with the RAYCHEM system from the Master computer (see Section 3.8.8).
- 2. Setup any Slave Server Computers:
 - A. Install the RAYCHEM Supervisor Slave Server application (see Section 3.8.6).
 - B. (Optional) Install the RAYCHEM Supervisor Client software if you want the user to be able to interact with the RAYCHEM system from the Slave computer (see Section 3.8.8).
- 3. Setup any Client Computers:
 - A. Install the RAYCHEM Supervisor Client software (see Section 3.8.8).
- 4. Convert an existing database (optional):
 - A. If you are upgrading from a previous version of RAYCHEM Supervisor, PyroMaster, or TraceMaster software, you may import some of the system setup information into the new software (see Sections 15.3 through 15.4 of the RAYCHEM Supervisor Operations Manual (H57576) as appropriate).
- 5. Activate and Register your new software (see Section 4).

3.2 INSTALLING MICROSOFT SQL SERVER 2000

To install Microsoft SQL Server 2000, insert the "RAYCHEM Supervisor Disk 2 – Microsoft SQL Server 2000 Standard Edition" CD in your computer's CD-Rom drive. If the installation application does not start automatically, navigate to the CD-Rom drive (D:\ for example) and then double click on Autorun.exe.



Note: This section applies to RAYCHEM Supervisor Enterprise, version 2.1 and earlier. If you are installing version 2.2 or newer, you should refer to Section 3.6 of this guide.



Note: If you are upgrading from a standard (SQL EXPRESS) version of RAYCHEM Supervisor, be sure to follow the procedure in the SQL EXPRESS Installation manual to uninstall SQL EXPRESS first. Ensure that you have completed all of the steps or SQL Server may not install properly.

3.2.1 INSTALLING THE DATABASE SERVER COMPONENTS

Once the install screen is displayed, click on "SQL Server 2000 Components" and then select Install Database Server.



Figure 3.2.1 Install SQL Server 2000 components



Figure 3.2.2 Install database server

Follow the on screen instructions. When the "Computer Name" screen appears, select Local Computer and then click "Next".



Figure 3.2.3 Computer name

Choose Create a new instance of SQL Server, or install Client Tools in the "Installation Selection" window. Click on "Next."



Figure 3.2.4 Create a new instance

Continue following the on screen directions. When the "Installation Definition" screen appears, select Server and Client Tools and then click on "Next."



Figure 3.2.5 Install client and server tools

In the Instance Name screen, leave the installation type selection set to Default. Click on "Next."



Figure 3.2.6 Default installation

Choose the Typical setup and then click "Next."

Setup Type				×
Click the type of Set	up you prefer, then clic	k Next.		
• Typical	Installed with the mos	t common options	. Recommended f	or most users.
○ <u>M</u> inimum	Installed with minimum	n required options.		
○ <u>C</u> ustom	You may choose the advanced users.	options you want I	to install. Recomm	ended for
- Destination Folder				
Program Files	B <u>r</u> owse	C:\Program File:	s\Microsoft SQL S	ierver
Data Files	Bro <u>w</u> se	C:\Program File:	s\Microsoft SQL S	erver
L			Required:	Available:
Space on program	files drive:		38205 K	14755888 K
Space on system d	lrive:		182917 K	14755888 K
Space on data files	s drive:		34432 K	14755888 K
	<u>H</u> elp	< <u>B</u> ack	<u>N</u> ext >	Cancel

Figure 3.2.7 Typical Setup

Next, choose Use the same account for each service, Auto start SQL Server Service and ensure the Service Settings are set to Use the Local System account. Then click on "Next."

Services Accounts		×
Use the same account for each same account for each same account for each same account for each same same same same same same same same	ch service. Auto start SQL	Server Service.
C Customize the settings for eac	h service.	
Services O SQL Server	Service Settings	em account
C SQL Server <u>Ag</u> ent	O Use a Domain Usej	r account
	<u>U</u> sername:	Administrator
	<u>P</u> assword:	
	<u>D</u> omain:	MASTERSVR-SQL1
	L Auto Start Service	
Help	< <u>B</u> ack	<u>N</u> ext > Cancel

Figure 3.2.8 Services accounts

In the Authentication Mode window, choose Windows Authentication Mode, and then click on "Next."

Authentication Mode	×
Choose the authentication mode.	
Windows Authentication Mode	
Mixed Mode (Windows Authentication and SQL Server Authentication)	ion)
Add password for the sa login:	
Enter password:	
Confirm password:	_
Blank Password (not recommended)	
Help < <u>B</u> ack <u>N</u> ext >	Cancel

Figure 3.2.9 Authentication mode

Continue following the on screen directions. When prompted to choose the Licensing Mode, select the Per Seat mode and enter the total number of devices for which you have purchased an SQL license.



Note: When purchased from nVent, copies of RAYCHEM Supervisor Enterprise include a SQL Server license and the appropriate number of SQL device (CALs) with the Supervisor software application. Simply add up the total number of Servers (Master+Slaves) and Users and enter this total into the devices box. For example, if you have purchased a package of RAYCHEM Supervisor software that includes (1) Master Server, (2) Slave Servers, and (5) Users, you would enter a total of 8 devices in the box.

Once you have done this, click on "Next."

Choose Li	icensing Mode	×
SQL Serv	ver 2000 supports two Client Licensing Modes	
	Per Seat - Each device that accesses Microsoft SQL Server 2000 requires a separate Client Access License.	
.	Processor License - Each processor on this server requires a separate Processor License.	
Please cli mode you	ick Help to fully understand the implications of the licensing a choose.	
_ Licensir	ng Mode	1
• Per	r <u>S</u> eat for 8 devices	
O <u>P</u> ro	ocessor License for	
	<u>C</u> ontinue <u>E</u> <u>x</u> it Setup <u>H</u> elp	

Figure 3.2.10 Licensing modes

Follow the on screen instructions until the installation is complete.

If your RAYCHEM Supervisor software package includes an additional CD labeled "RAYCHEM Supervisor Disk 3 – Microsoft SQL Server 2000 Service Pack 3a," insert this disk into the computer's CD-Rom drive. If the installation application does not start automatically, navigate to the CD-Rom drive (D:\ for example) and then double click on Setup.bat.

The Welcome screen will be displayed. Click on "Next" to continue.



Figure 3.2.11 Install SQL Server SP3

The program may display a license agreement. If you accept the terms of the agreement, press the Yes button and the installation will proceed. If you press the No button, the installation will terminate.

If you installed SQL Server by following the instructions earlier in this Section (see Figure 2-3-1-6), check the Default check box to select the instance name. If you have more than one instance of SQL Server installed on the computer, specify which instance to update by entering the instance name into the space provided. Click on "Next" to continue.

instance Name		x
	Default To apply Service Pack to the default instance, check the Default box and click Next. To apply Service Pack to a named instance of SQL Server on this computer, clear the Default checkbox and type or select an instance name. A new name must be 16 characters or less and should start with a letter or other acceptable character. For more information, click Help. Instance name	
	Help < <u>B</u> ack <u>Next</u> Cancel	

Figure 3.2.12 Select the instance name to update

Next, select how to connect to the SQL Server. Choose Windows Authentication and click on "Next."



Figure 3.2.13 Connect using Windows authentication

The installation program will attempt to authenticate the password. This may take a few minutes to complete. A Password Warning window may be displayed. Choose Ignore the security threat warning, leave password blank and click on "OK."

A Password Warning	
Service pack setup has detected that your SA password is set to blank. It is highly recommended that you set a strong password and secure your database server, even if you are using Windows authentication.	i
C I do not want a blank password, <u>s</u> et password :	
Enter SA Password:	
Confirm SA Password:	
Ignore the security threat warning, leave the password blank.	
<u> </u>	1

Figure 3.2.14 Leave SA password blank

When the SQL Server SP3 Setup window is displayed, check the Upgrade Microsoft Search and apply SQL Server 2000 SP3 box and click on "Continue."

SQL Server 2000 Service Pack 3 Setup	x
Backward Compatibility Checklist	
Verify the following SP3 security enhancements. Click Help for more information.	
Cross-database ownership chaining is turned off by default in SP3. After installation, you can enable cross-database ownership chaining for individual databases. If you must use cross-database ownership chaining, select the check box below.	
Enable cross-database ownership chaining for all databases (not recommended)	
SP3 will upgrade Microsoft Search service and automatically rebuild all full-text catalogs for all applications using the service. During the rebuild, full-text functionality may not be fully available. Select the check box below to continue upgrading to SP3.	
Upgrade Microsoft Search and apply SQL Server 2000 SP3 (required).	
Click Cancel to exit Setup without installing SP3.	
<u>H</u> elp Cancel	

Figure 3.2.15 Apply SQL Server 2000 SP3

When the Error Reporting screen is displayed, ensure that the check box is not selected and then click on "OK."

Error reporting	×
If you enable SQL Server's error reporting feature, SQL Server will be configured to automatically send fatal service error report to Microsoft or a Corporate Error Reporting server.	
If a fatal error occurs, the server sends information about the error to Microsoft over a secure connection, where it is stored with limited access, or to a Corporate Error Reporting server.	
To setup a Corporate Error Reporting server to control the information sent to Microsoft, see http://oca.microsoft.com/cerintro.asp. Microsoft uses the reports only to improve SQL Server, and treats all information as confidential.	
For more information on the error reporting feature and the type of information sent, click Help.	
□ <u>A</u> utomatically send fatal error reports to Microsoft <u>H</u> elp <u>□K</u>	

Figure 3.2.16 Error reporting

This will complete the setup required to allow the Service Pack to be installed. Click on "Next" to begin the installation process.

Start Copying Files		×
	Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.	
	< <u>B</u> ack <u>Next></u> Cancel	

Figure 3.2.17 Start the installation

The setup software may ask you to perform a backup of your database. This is not required for new installations and may be ignored. Click on "OK" to continue.



Figure 3.2.18 Backup notification

Once the installation process is finished, you may be prompted to reboot the computer to complete the process. Remove the CD from the drive and click on Finish to complete the setup process.

Setup Complete	
	Setup has finished copying files to your computer. Before you can use the program, you must restart Windows or your computer. • <u>Yes, I want to restart my computer now</u> • <u>No, I will restart my computer later.</u> Remove any disks from their drives, and then click Finish to complete setup.
	Finish

Figure 3.2.19 Reboot the computer

3.2.2 STARTING THE SQL SERVER

In order for the RAYCHEM Supervisor software to install and run, you must start the SQL Server database service. This can be accomplished by simply rebooting the computer or you may start the Server manually as follows:

Go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPONENT SERVICES » SERVICES (LOCAL).

Perform a right click on the MSSQLSERVER entry and click on "start."

🚡 Component Services					<u> </u>
🛛 🚡 Console 🛛 <u>W</u> indow H	elp				_ 8 ×
] <u>A</u> ction ⊻iew] ← →	· 🗈 📧 🖆 🛱 😫 🕨 + = II =>				
Tree	Services (Local)				
Console Root	Name 🛆	Description	Status	Startup Type	Log On As 🔺
🗄 🧑 Component Services	Sharing Connection Sharing	Provides n		Manual	LocalSyste
🕀 🔟 Event Viewer (Local)	w Intersite Messaging	Allows sen		Disabled	LocalSyste
Services (Local)	IPSEC Policy Agent	Manages I	Started	Automatic	LocalSyste
	Kerberos Key Distribution Center	Generates		Disabled	LocalSyste
	Cicense Logging Service		Started	Automatic	LocalSyste
	Kanager Disk Manager	Logical Disk	Started	Automatic	LocalSyste
	Service Disk Manager Administrative Service	Administrat		Manual	LocalSyste
	McAfee Framework Service	Shared co	Started	Automatic	LocalSyste
	Search Messenger	Sends and	Started	Automatic	LocalSyste
	🆓 Microsoft Search	Creates ful	Started	Automatic	LocalSyste
	MSSQLSERVER .		Started	Automatic	LocalSyste
	MSSQLServerADHelper			Manual	LocalSyst∈
	Net Logon	Supports p		Manual	LocalSyste
	NetMeeting Remote Desktop Sharing	Allows aut		Manual	LocalSyst∈
	Network Associates McShield		Started	Automatic	LocalSyste
	Network Associates Task Manager		Started	Automatic	LocalSyste
	Wetwork Connections	Manages o	Started	Manual	LocalSyste
L					

Figure 3.2.20 Manually starting the SQL server service

3.2.3 CONFIGURATION OF A WINDOWS ACCOUNT FOR USE WITH SQL SERVER

Now that you have successfully installed and started SQL Server, you must create an account that will allow the RAYCHEM Supervisor Master Server to access the service.

To accomplish this, go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPUTER MANAGEMENT » LOCAL USERS & GROUPS » USERS.

📙 Computer Management				
Action ⊻iew C → E 💽	1 🗟 😫			
Tree	Name	Full Name	Description	
Computer Management (Local) System Tools System Tools System Information System Information System Information Device Manager Local Users and Groups Storage Storage Disk Management Logical Drives Storage Storag	Administrator ASPNET Guest TUSR_MASTE TWAM_MAST TSInternetUser	ASP.NET Machine Account Internet Guest Account Launch IIS Process Account TsInternetUser	Built-in account for administering the Account used for running the ASP.NE Built-in account for guest access to t Built-in account for Internet Informat This user account is used by Terminal	
J			J. J	

Figure 3.2.21 Creating a new local user

Right click in the Name area (right-hand side) of the window and click on New User. You may choose any name that you wish for the account, but a name that is representative of the account's use is recommended. For example, "RAYCHEM Master" could be used. Complete each field making specific note of the User name and Password, as these parameters will be required when setting up the Master Server Software. Click "Create" to complete the operation.

New User		? ×
<u>U</u> ser name:	Raychem Master	
<u>F</u> ull name:	Raychem Master	
Description:		
Password:		
<u>C</u> onfirm passwor	d:	
User <u>m</u> ust ch	nange password at next logon	
🔲 U <u>s</u> er cannot	change password	
Pass <u>w</u> ord na	ever expires	
Account is di	isabled	
<u>H</u> elp	Cr <u>e</u> ate Cl <u>o</u> se	

Figure 3.2.22 New user setup

Once the user has been created, it will appear in the user list. Right click on the new user name and go to Properties. Once in the Properties window, choose the General tab and ensure that User cannot change password and Password never expires are both selected.

Raychem Master Properties	? ×
General Member Of Profile	
Raychem Master	
Eull name: Raychem Master	
Description:	
User must change password at next logon	
User cannot change password	
<u>P</u> assword never expires	
Account is disa <u>b</u> led	
Account is locked out	
OK Cancel Apply	Help

Figure 3.2.23 New user properties

Raychem Master Properties	? ×
General Member Of Profile	
Member of:	
🕭 Users	
Changes to a user's group member	ership
Add	e the
OK Cancel Apply	Help

Next, choose the Member Of tab and click on the Add button.

Figure 3.2.24 New user group assignment

In the list of groups, choose Administrators and then click on "Add". This step will ensure that the RAYCHEM Master Server user will have the access it needs to interact with the SQL Server service.

Select Groups		? ×
Look in: 📃 MASTERSVR-SQL1		Ţ
Name	In Folder	
Administrators	MASTERSVR-SQL1	
🕼 Backup Operators	MASTERSVR-SQL1	
🛃 Guests	MASTERSVR-SQL1	
4 Power Users	MASTERSVR-SQL1	
I Replicator	MASTERSVR-SQL1	
🛃 Users	MASTERSVR-SQL1	
Magnetic Administrators	MASTERSVR-SQL1	•
Add Cheok Names		
<< Type names separated by semicolons or cl	hoose from list >>	
	OK	Cancel

Figure 3.2.25 Set the new user as an administrator

Once the Administrators group has been added, the new user should be a member of both the Administrators and Users groups.

Raychem Master Properties	? ×
General Member Of Profile	
Member of:	
Administrators Users	
Changes to a user's group member are not effective until the next time user logs on.	ship the
OK Cancel Apply H	elp

Figure 3.2.26 User Membership List

Click on "Apply" and then "OK." The new user name should be added to the list.



Figure 3.2.27 Addition of the new user

3.2.4 WINDOWS SERVER LICENSING

The computer on which SQL Server is installed must use Microsoft Windows 2003 Server or Windows 2000 Server as the operating system. The user is responsible for ensuring that the proper licensing following the latest requirements is obtained from Microsoft for legal use of Windows Server and User or Device connections.

A number of options for Windows Server Client Access Licenses (CALs) are available from Microsoft. For a detailed description of the various options, see the Microsoft Website at www. microsoft.com/resources/sam/lic_cal.mspx .

Typical RAYCHEM Supervisor systems will use a mix of Device and User CALs. You will need to purchase a separate Windows Server Device CAL for each Master and Slave Server and a separate Windows Server User CAL for each user in your RAYCHEM system.

3.3 UNINSTALLING MICROSOFT SQL SERVER 2000

You may remove Microsoft SQL Server 2000 from your computer system by following these steps:

- 1. Click the START button, then Select Control Panel.
- 2. Double-Click Add/Remove Programs.
- 3. In the list of installed programs, select Microsoft SQL Server. Click on the Remove button.
- 4. Follow the instructions that appear on the screen.

🔝 Add or Rei	nove Programs				스
Starter av	Currently installed programs:	Show updates	Sort by: Name		•
Remove Programs	S Microsoft Office Live Meeting 2007		Size	50.65MB	-
a .	Sa Microsoft Office Professional Plus 2010		Size	751.00MB	
- 1	🥪 Microsoft Silverlight		Size	1.30MB	
Add <u>N</u> ew Programs	🥪 Microsoft Silverlight 3 SDK		Size	31.93MB	
~	🥪 Microsoft Silverlight 4 SDK		Size	51.68MB	
	Microsoft SQL Server 2000		Size	45.25MB	
<u>Windows</u>	Click here for support information.		Used	rarely	
Components			Last Used On	23/07/2008	
€⁄	To change this program or remove it from your compute	r, click Change/Remove.	Chang	e/Remove	_
Set Program	Microsoft SQL Server 2005		Size 1	1,755.00MB	
Access and Defaults	Microsoft SQL Server 2005 Backward compatibility		Size	26.18MB	
	🔒 Microsoft SQL Server 2005 Books Online (English)		Size	123.00MB	
	I Microsoft SQL Server 2005 Mobile [ENU] Developer Tool	s	Size	66.95MB	
	Microsoft SQL Server 2008		Size 1	1,513.00MB	
	Microsoft SQL Server 2008 R2		Size 1	1,703.00MB	
	Microsoft SQL Server 2008 R2 Native Client		Size	4.58MB	
	🔒 Microsoft SQL Server 2008 R2 Setup (English)		Size	37.15MB	
	A Microcoft SOL Server 2008 Setup Support Files		Cas	07. 07.MD	•

Figure 3.3.1 Remove Microsoft SQL Server

3.4 INSTALLING MICROSOFT SQL SERVER 2005

To install Microsoft SQL Server 2005, insert the "Microsoft SQL Server 2005 Standard Edition – Disc 1" CD in your computer's CD-Rom drive. If the installation application does not start automatically, navigate to the CD-Rom drive (D:\ for example) and then double click on Autorun. exe.



Note: This section applies to RAYCHEM Supervisor Enterprise, versions 2.2 and later. If you are installing version 2.1 and earlier, you should refer to Section 3.2 of this guide.



Note: If you are upgrading from a standard (SQL EXPRESS) version of RAYCHEM Supervisor, be sure to follow the procedure in the SQL EXPRESS Installation manual to uninstall SQL EXPRESS first. Ensure that you have completed all of the steps or SQL Server may not install properly.

3.4.1 INSTALLING THE DATABASE SERVER COMPONENTS

Once the install screen appears, click on "Install Server components, tools, Books Online, and samples". The Microsoft SQL Server 2005 End User License Agreement will appear. You must accept the licensing terms and conditions before you can move on with rest of the installation.



Figure 3.4.1 Install SQL Server 2005 Startup menu



Figure 3.4.2 Microsoft SQL Server 2005 End User License Agreement

Once the "Installing Prerequisites" screen appears, click on "Install" to start the Installation.



Figure 3.4.3 Microsoft SQL Server 2005 Installing Prerequisites

For the next couple of screens, follow the on screen instructions. When the "Components to Install" screen appears, select the SQL Server database Services and Workstation components, Books Online and development tools, then click on "Next".

🙀 Microsoft SQL Server 2005 Setup	×
Components to Install Select the components to install or upgrade.	
SQL Server Database Services	
Create a SQL Server failover cluster	
Analysis Services	
Create an Analysis Server failover cluster	
<u>Reporting Services</u>	
Notification Services	
Integration Services	
Workstation components, Books Online and development tools	
For more options, click Advanced.	Advanced
Help < <u>B</u> ack <u>N</u> ext >	Cancel

Figure 3.4.4 Components to Install

When the "Instance Name" screen appears, select Default Instance then click on "Next".

🖟 Microsoft SQL Server 2005 Setup 🔀
Instance Name You can install a default instance or you can specify a named instance.
Provide a name for the instance. For a default installation, click Default instance and click Next. To upgrade an existing default instance, click Default instance. To upgrade an existing named instance select Named instance and specify the instance name.
Default instance Named instance
Help Cancel Cancel

Figure 3.4.5 Instance name

Choose Local System for the "Use the build-in System account", and for "Start services at the end of setup" select SQL Server. Click on "Next."

🙀 Microsoft SQL Server 2005 Setup		×
Service Account Service accounts define which accou	ints to log in.	
Customize for each service accor	unt	
	v	
Use the built-in System account	Local system	•
O Use a domain use <u>r</u> account		
Username:		
Password:		
Domain:		
Start services at the end of setup		
SQL Server		
SQL Server Agent		
SQL Browser		
Help	< <u>B</u> ack <u>N</u> ext >	Cancel

Figure 3.4.6 Service Account

When the "Authentication Mode" screen appears select Windows Authentication Mode then click on "Next".

Microsoft SQL Server 2005 Setup	×
Authentication Mode The authentication mode specifies the security used when connecting to SQL Server.	
Select the authentication mode to use for this installation.	
Windows Authentication Mode Mixed Mode (Windows Authentication and SQL Server Authentication) Specify the salogon password below:	
Enter password:	
Confirm password:	
Confirm <u>p</u> assword:	

Figure 3.4.7 Authentication Mode

In the "Collation Settings" screen, select SQL collations (used for compatibility with previous versions of SQL Server) option. Click on "Next."

🛃 Microsoft SQL Server 2005 S	etup	×
Collation Settings Collation settings define the so	rting behavior for your server.	
Collation settings for service: SOL 1	Server	
		_
C Collation <u>d</u> esignator and sort	order:	
Latin1_General	Y	
E Binary	🔲 Binary - code point	
Case - sensitive	🗖 Kana - sensitive	
Accent - sensitive	Width - sensitive	
SQL collations (used for comp	patibility with previous versions of SQL Server)	
Bipary order based op code po	int comparison, for use with the 850 (Multilingual)	
Strict compatibility with version	1.× case-insensitive databases, for use with the	
Dictionary order, case-sensitive Dictionary order, case-insensiti	e, for use with 1252 Character Set.	
Dictionary order, case-insensit	ive. unnercase preference. for use with 1252.Ch	
Help	< Pack Next > Capcel	

Figure 3.4.8 Collation Settings

Choose the Error and Usage report settings if required then click on "Next."



Figure 3.4.9 Error and Usage Report Settings

Finally the "Ready to Install" screen should appear, click on "Install" to start the installation.

🙀 Microsoft SQL Server 2005 Setu	p		×
Ready to Install Setup is ready to begin installation	I.		
Setup has enough information to st change any of your installation sett	art copying the pr ings, click Back. Ti	ogram files. To proce o exit setup, click Ca	eed, click Install. To ncel.
The following component SQL Server Databas (Database Services, Replica Client Components (Connectivity Components, N Development Studio, SQL Set 	s will be insta tion, Full-Text S Management To erver Books Onl	illed: Search) Jools, Business Inte line)	elligence
Help	< <u>B</u> ack	Install	Cancel

Figure 3.4.10 Ready to Install

Once the installation has started the "Setup Progress" screen appears. The installation will take some time to complete and you will be prompted to insert Disc 2 during the installation process.

Setup Progress The selected components are being configured Product Status MSXML6 Image: Configure of the setup finished SQL Setup Support Files Setup finished SQL VSS Writer Image: Configuring components OWC11 Configuring components SQL Server Backward-Compatibility Files Image: Configuring components	💹 Microsoft SQL Server 2005 Setup		×
Product Status MSXML6	Setup Progress The selected components are being config	ured	
MSXML6 Status Ø SQL Setup Support Files Setup finished SQL VSS Writer SQL VSS Writer OWC11 Configuring components SQL Server Backward-Compatibility Files	Product	Shahur	
Import Files Setup finished SQL Setup Support Files Setup finished SQL VSS Writer Solution OWC11 Configuring components SQL Server Backward-Compatibility Files Solution		Status	
Sol Setup Support Files Setup Finished Sol Native Client Setup finished Sol VSS Writer OWC11 Sol Server Backward-Compatibility Files			
Soci Native Client Secup rinished SQL VSS Writer	SQL Setup Support Files	Setup finished	
SQL VSS Writer OWC11 Configuring components SQL Server Backward-Compatibility Files	SQL Native Client	Setup finished	
SQL Server Backward-Compatibility Files	SQL VSS Writer		
SQL Server Backward-Compatibility Files		Configuring components	
	SQL Server Backward-Compatibility Files		
SQL Server Database Services	SQL Server Database Services		
Visual Studio Integrated Development	Visual Studio Integrated Development		
Chilur -	Chabura		
Status	Status		
Copying new files	Copying new files		
Copying file: OWC11.DLL	Copying file: OWC11.DLL		
Help << Back Next >> Cancel		<< <u>B</u> ack <u>N</u> ext >>	Cancel

Figure 3.4.11 Setup Progress

Once the installation has completed, the "Completing Microsoft SQL Server 2005 Setup" appears. Click on "Finish" to complete the installation.



Figure 3.4.12 Complete Microsoft SQL Server 2005 Setup

3.4.2 STARTING THE SQL SERVER

The SQL Server Service should already be started by the installation. If there is a need to manually start the SQL Server Service, this can be accomplished by simply rebooting the computer or you may start the Server manually as follows:

Go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPONENT SERVICES » SERVICES (LOCAL).

Perform a right click on the SQL Server (MSSQLSERVER) entry and click on "start."



Figure 3.4.13 Manually starting the SQL server service

3.4.3 CONFIGURATION OF A WINDOWS ACCOUNT FOR USE WITH SQL SERVER

Now that you have successfully installed and started SQL Server, you must create an account that will allow the RAYCHEM Supervisor Master Server to access the service.

To accomplish this, go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPUTER MANAGEMENT » LOCAL USERS & GROUPS » USERS.



Figure 3.4.14 Creating a new local user

Right click in the Name area (right-hand side) of the window and click on New User. You may choose any name that you wish for the account, but a name that is representative of the account's use is recommended. For example, "RAYCHEM Master" could be used. Complete each field making specific note of the User name and Password, as these parameters will be required when setting up the Master Server Software. Click "Create" to complete the operation.

New User	? >
User name:	
Eull name:	
Description:	
Password:	
Confirm password:	
User must change password at next logon	
User cannot change password Password never expires	
Account is disa <u>b</u> led	
Create	Cl <u>o</u> se

Figure 3.4.15 New user setup

Once the user has been created, it will appear in the user list. Right click on the new user name and go to Properties. Once in the Properties window, choose the General tab and ensure that User cannot change password and Password never expires are both selected.

aychem Master P	roperties		?
General Member C	f Profile		
Raycher	n Master		
<u>F</u> ull name:	Raychem Master		
Description:			
User <u>m</u> ust char	nge password at next log	jon	
User cannot ch	ange password		
Password neve	r expires		
Account is disa	<u>b</u> led		
Account is lock	ed out		
C	K Cancel	Apply	Help

Figure 3.4.16 New user properties

Raychem Master Properties	? ×
General Member Of Profile	
Member of:	
A Users	
I	
Add Hemove Changes to a user's group member are not effective until the next time user logs on.	rship the
OK Cancel Apply H	lelp

Next, choose the Member Of tab and click on the Add button.

Figure 3.4.17 New user group assignment

In the list of groups, choose Administrators and then click on "Add". This step will ensure that the RAYCHEM Master Server user will have the access it needs to interact with the SQL Server service.

📲 Select Groups		<u>? ×</u>
Look in: 📃 MASTERSVR-SQL1		_
Name	In Folder	▲
Administrators	MASTERSVR-SQL1	
🖅 Backup Operators	MASTERSVR-SQL1	
🖉 Guests	MASTERSVR-SQL1	
🖉 Power Users	MASTERSVR-SQL1	
🛛 壁 Replicator	MASTERSVR-SQL1	
🖉 Users	MASTERSVR-SQL1	_
Sector Administrators	MASTERSVR-SQL1	<u> </u>
Add Check Names		
<< Type names separated by semicolons	or choose from list >>	
		OK Cancel



Once the Administrators group has been added, the new user should be a member of both the Administrators and Users groups.

Raychem Master Properties	? ×
General Member Of Profile	
Member of:	
Administrators Vsers	
Add Bemove Changes to a user's group member are not effective until the next time user logs on.	ership e the
OK Cancel Apply	Help

Figure 3.4.19 User Membership List

Click on "Apply" and then "OK." The new user name should be added to the list.



Figure 3.4.20 Addition of the new user

3.4.4 WINDOWS SERVER LICENSING

The computer on which SQL Server is installed must use Microsoft Windows 2003 Server or Windows 2000 Server as the operating system. The user is responsible for ensuring that the proper licensing following the latest requirements is obtained from Microsoft for legal use of Windows Server and User or Device connections.

A number of options for Windows Server Client Access Licenses (CALs) are available from Microsoft. For a detailed description of the various options, see the Microsoft Website at www. microsoft.com/resources/sam/lic_cal.mspx .

Typical RAYCHEM Supervisor systems will use a mix of Device and User CALs. You will need to purchase a separate Windows Server Device CAL for each Master and Slave Server and a separate Windows Server User CAL for each user in your RAYCHEM system.

3.5 UNINSTALLING MICROSOFT SQL SERVER 2005

You may remove Microsoft SQL Server 2005 from your computer system by following these steps:

- 1. Click the START button, then Select Control Panel.
- 2. Double-Click Add/Remove Programs.
- 3. In the list of installed programs, select Microsoft SQL Server 2005. Click on the Remove button.
- 4. Follow the instructions that appear on the screen.

😥 Add or Rer	nove Programs				
-	Currently installed programs:	Show updates	Sort by: Name	B	•
Cnange or Remove Programs	Microsoft Office Live Meeting 2007		Size	50.65MB	-
~ .	Sa Microsoft Office Professional Plus 2010		Size	751.00MB	
- 1	🥪 Microsoft Silverlight		Size	1.30MB	
Add <u>N</u> ew Programs	🥪 Microsoft Silverlight 3 SDK		Size	31.93MB	
~	🥪 Microsoft Silverlight 4 SDK		Size	51.68MB	
	Microsoft SQL Server 2000		Size	45.25MB	
<u>Windows</u>	🚪 Microsoft SQL Server 2005		Size	1,755.00MB	
Components	Click here for support information.		Used	frequently	
Set Program	To change this program or remove it from your computer, cli	ck Change or Remove.	Last Used On 1 Change	16/11/2009 Remove	
Defaults	Microsoft SQL Server 2005 Backward compatibility		Size	26.18MB	
	🔒 Microsoft SQL Server 2005 Books Online (English)		Size	123.00MB	
	Microsoft SQL Server 2005 Mobile [ENU] Developer Tools		Size	66.95MB	
	Microsoft SQL Server 2008		Size 1	1,513.00MB	
	Microsoft SQL Server 2008 R2		Size 1	1,703.00MB	
	Microsoft SQL Server 2008 R2 Native Client		Size	4.58MB	
	Microsoft SQL Server 2008 R2 Setup (English)		Size	37.15MB	
	A Microcoft SOL Server 2008 Setup Support Files		~~~	04 04MD	•

Figure 3.5.1 Remove Microsoft SQL Server 2005

3.6 INSTALLING MICROSOFT SQL SERVER 2008

To install Microsoft SQL Server 2008, insert the "Microsoft SQL Server 2008 Standard Edition" CD in your computer's CD-Rom drive. If the installation application does not start automatically, navigate to the CD-Rom drive (D:\ for example) and then double click on Autorun.exe.



Note: This section applies to RAYCHEM Supervisor Enterprise, versions 2.2 and later. If you are installing version 2.1 and earlier, you should refer to Section 3.2 of this guide.



Note: If you are upgrading from a standard (SQL EXPRESS) version of RAYCHEM Supervisor, be sure to follow the procedure in the SQL EXPRESS Installation manual to uninstall SQL EXPRESS first. Ensure that you have completed all of the steps or SQL Server may not install properly.

3.6.1 INSTALLING THE DATABASE SERVER COMPONENTS

Once the SQL Server installation Center screen appears, click on "Installation" menu item, and select "New SQL Server stand-alone installation or add features to an existing installation". The Microsoft SQL Server 2008 License Terms will appear. You must accept the license terms before you can move on with rest of the installation.



Figure 3.6.1 SQL Server 2008 Installation Center

SQL Server 2008 Setup	
To install SQL Server 2008	you must accept the Microsoft Software License Terms.
Product Key License Terms	MICROSOFT SOFTWARE LICENSE TERMS
Setup Support Files	MICROSOFT SQL SERVER 2008 STANDARD EDITION
	These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
	updates,
	supplements,
	Internet-based services, and
	support services
	for this software, unless other terms accompany those items. If so, those terms apply.
	BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE. INSTEAD, RETURN IT TO THE RETAILER FOR A REFUND OR CREDIT. If you cannot obtain a refund there, contact Microsoft or the Microsoft affiliate serving 💌
	La 🗐 Copy Print
	\Box I accept the license terms.
	< <u>Back</u> <u>N</u> ext > Cancel

Figure 3.6.2 Microsoft Software License Terms for Microsoft SQL Server 2008 Standard Edition

Setup Support Files			
Click Install to install Setup	Support files. To install or update SQL S	Server 2008, these files are required.	. And the second s
roduct Key	The following components a	re required for SQL Server Setup:	and the second
cense Terms	Feature Name	Status	
etup Support Files	Setup Support Files		
	,		

Once the "Setup Support Files" screen appears, click on "Install" to start the Installation.



For the next couple of screens, follow the on screen instructions. When the "Feature Selection" screen appears, use the "Select All" for a full installation or manually select the feature that is needed. Click on "Next" to continue.

Feature Selection Select the Standard features to install. For clustered installations, only Database Engine Services and Analysis Solustered. Setup Support Rules Features: Des Feature Selection Instance Features Services Configuration Disk Space Requirements Services Configuration Services Configuration Analysis Services Configuration Part Search Manages Services Reporting Services Configuration Shared Features Shared Features Installation Rules Business Intelligence Development Studio Client Tools Backwards Compatibility Installation Progress Complete SQL Server Rools Online Wanagement Tools - Complete SQL Client Concetivity SDK	rvices can be cription: ver features are instance-aware and e their own registry hives. They port multiple instances on a computer.
Setup Support Rules Eeatures: Des Feature Selection Instance Configuration Server Configuration Server Configuration Dick Space Requirements Image: Service Service Service Services Server Configuration Server Replication Database Engine Configuration Analysis Services Server Configuration Server Replication Analysis Services Configuration Provide Services Server Replication Server Replication Error and Usage Reporting Installation Rules Sol Services Services Installation Rules Integration Sol Sol Connectivity Integration Sol	cription: ver features are instance-aware and e their own registry hives. They port multiple instances on a computer.
Microsoft Sync Framework Redistributable Features Select <u>A</u> II <u>Unselect AII</u>	

Figure 3.6.4 SQL Server 2008 Feature Selection screen

When the "Instance Configuration" screen appears, select Default Instance then click on "Next".

🍀 SQL Server 2008 Setup							
Instance Configuration Specify the name and instance ID for	or the SQL Server ins	stance.					
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration	© Default instance C Named instance:		MSSQLSERVER				
	Instance <u>I</u> D: Instance <u>r</u> oot directory:		MSSQLSERVER C:\Program Files\Microsoft SQL Server\				
Reporting Services Connguration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	SQL Server directory: Analysis Services directory: Reporting Services directory: Installed instances:		C:\Program Files\Microsoft SQL Server\MSSQL10.MSSQLSERVER C:\Program Files\Microsoft SQL Server\MSAS10.MSSQLSERVER : C:\Program Files\Microsoft SQL Server\MSRS10.MSSQLSERVER				
	Instance	Feat	ures	Edition	Version	Instance ID	
				< <u>B</u> ack	<u>N</u> ext >	Cancel Help	

Figure 3.6.5 Instance Configuration screen

Continue until the Server Configuration screen is reached. In this screen, you must setup an account name for reach Service displayed. Click on the "Collation" tab and check the Collation settings, edit them if required.

Server Configuration		ANNA TARABAN MANANA	n an	
Specify the configuration. Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Service Accounts Collation Microsoft recommends that you use a Service SQL Server Agent SQL Server Database Engine	separate account for each S Account Name NT AUTHORITY(SYSTEM NT AUTHORITY(SYSTEM	QL Server service	a. Startup Type Manual V Automatic V
	SQL Server Analysis Services Sql Server Reporting Services SQL Server Integration Services 10.0 These services will be configured auto older Windows versions the user will Help.	NT AUTHORITY'LOCAL S NT AUTHORITY'LOCAL S NT AUTHORITY'Wetwork Use the sa matically where possible to need to specify a low privileg	me account for a use a low privile e account. For n	Automatic Automatic Autom
	Service SQL Full-text Filter Daemon Launcher SQL Server Browser	Account Name NT AUTHORITY/LOCAL S NT AUTHORITY/LOCAL S	Password	Startup Type Manual Automatic

Figure 3.6.6 Server Configuration screen

When the "Database Engine Configuration" screen appears select Windows Authentication Mode. You must also have to specify a SQL Server administrator on this screen. This should be someone with admin privileges. Click on "Next" to continue.
😚 SQL Server 2008 Setup	
Database Engine Config Specify Database Engine authentic	urration ation security mode, administrators and data directories.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Account Provisioning Data Directories FILESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode © Mixed Mode (SQL Server authentication and Windows authentication) Built-in SQL Server system administrator account Enter password: Cgnfirm password: Specify SQL Server administrators WIN-432TYFQNQKB (Administrator (Administrator)) Squares Engine. Add Current User Add Remove
	< <u>B</u> ack <u>N</u> ext > Cancel Help

Figure 3.6.7 Database Engine Configuration screen

In the "Analysis Services Configuration" screen, specify a user that has permission to perform analysis services. Click on "Next."

🊼 SQL Server 2008 Setup		
Analysis Services Config Specify Analysis Services administr	guration rators and data directories.	
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Account Provisioning Data Directories Specify which users have administrative permissions for Analysis Services. WIN-432TYFONQKB\Administrator (Administrator) Analysis S administrative permissions for Analysis Services.	ervices tors have d access to ervices.
		ncel Help

Figure 3.6.8 Analysis Services Configuration screen

On the "Reporting Services Configuration" screen, select a reporting service option, click on "Next."

骻 SQL Server 2008 Setup	
Reporting Services Conf	iguration guration mode.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	 Install the native mode default configuration. Setup will install the report server and configure it in Native mode to use the default values. The report server is usable as soon as Setup is finished. Install the SharePoint integrated mode default configuration. Setup will create the report server database in SharePoint integrated mode and configure the report server to use the default values. The weight of the subject of the subj
	< <u>B</u> ack Cancel Help



Continue on with the next few screen, until the "Ready to Install" screen appear, click on "Install" to start the installation.

Verify the SQL Server 2008 featur	es to be installed.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress Complete	Ready to install SQL Server 2008:



Once the installation has started the "Setup Progress" screen appears. The installation will take some time to complete. When the installation completes, the "Installation progress" screen will be displayed. If there are no errors encountered click on "Next".

Installation Progress		
		
etup Support Rules	Setup process complete	N. W. M. Markallana .
eature Selection		
nstance Configuration		
)isk Space Requirements		
erver Configuration		
atabase Engine Configuration	Feature Name	Status ,
nalysis Services Configuration	Database Engine Services	Success
eporting Services Configuration	SQL Server Replication	Success
ror and Usage Reporting	Full-Text Search	Success
stallation Rules	Analysis Services	Success
eady to Install	Reporting Services	Success
stallation Progress	Integration Services	Success
omplete	Client Tools Connectivity	Success
	Management Tools - Complete	Success
	Client Tools SDK	Success
	Client Tools Backwards Compatibility	Success
	Business Intelligence Development Studio	Success
	Management Tools - Basic	Success
	SOL Client Connectivity SDK	Success
	SQL Server Books Online	Success

Figure 3.6.11 Setup Progress

The "Complete" appears. Click on "Close" to exit the installation.

🚼 SQL Server 2008 Setup	
Complete Your SQL Server 2008 installation	completed successfully.
Setup Support Rules Feature Selection Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Analysis Services Configuration Reporting Services Configuration Error and Usage Reporting Installation Rules Ready to Install Installation Progress	Summary log file has been saved to the following location: C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20110721_121546\Summary_WIN- 432TYF0NOKB_20110721_121546.txt Information about the Setup operation or possible next steps: Your SQL Server 2008 installation completed successfully.
	Supplemental Information: The following notes apply to this release of SQL Server only. Microsoft Update For information about how to use Microsoft Update to identify updates for SQL Server 2008, see the Microsoft Update Web site http://go.microsoft.com/fwlink/?LinkId=108409 > at http://go.microsoft.com/fwlink/?LinkId=108409. Reporting Services The Reporting Services installation options that you specified in Setup determine whether additional configuration is required before you can access the report server. If you installed the default configuration, the report server
	Close Help

Figure 3.6.12 Complete Microsoft SQL Server 2008 Setup

3.6.2 STARTING THE SQL SERVER

The SQL Server Service should already be started by the installation. If there is a need to manually start the SQL Server Service, this can be accomplished by simply rebooting the computer or you may start the Server manually as follows:

Go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPONENT SERVICES » SERVICES (LOCAL).

Perform a right click on the SQL Server (MSSQLSERVER) entry and click on "start."

🕘 Component Services							
🔈 Ele Acton View Window Help							
Console Root	Services (Local)						Actions
Component Services		·					Services (Local)
+ Event Viewer (Local)	SQL Server (MSSQLSERVER)	Name 🔶	Description	Status	Startup	Log On As 🔺	More Actions
E Services (Local)		Secondary Logon	Enables starting pro	Started	Automatic	Local System	More Actions +
	Stop the service	Secure Socket Tunneling Protoc	Provides support for		Manual	Local Service	SQL Server (M 🔺
	Restart the service	Security Accounts Manager	The startup of this s	Started	Automatic	Local System	More Actions
		Server	Supports file, print,	Started	Automatic	Local System	
	Description:	Shell Hardware Detection	Provides notification	Started	Automatic	Local System	
	Provides storage, processing and	SL UI Notification Service	Provides Software Li		Manual	Local Service	
	controlled access of data, and rapid	Smart Card	Manages access to s		Manual	Local Service	
	transaction processing.	Smart Card Removal Policy	Allows the system to		Manual	Local System	
		Shime trap	Receives trap messa		Manual	Local Service	
		Software Licensing	Enables the downloa	Started	Automatic	Network S	
		Special Administration Console	Allows administrator		Manual	Local System	
		SQL Active Directory Helper Ser	Enables Integration	Charles	Disabled	Network S	
		SQL Pull-text Pilter Daemon Lau	Service to launch full	Started	Manual	Local Service	
		SOL Server (MSSQLSERVER)	Provides storage, pr	Started	Automatic	Local System	
		SQL Server Agent (MSSQLSERV	Executes jobs, moni	Charles	Manual	Local System	
		SQL Server Analysis Services (Supplies online analy	Started	Automatic	Local Service	
		SQL Server browser	Provides SQL Server	Started	Automatic	Local Service	
		SQL Server Integration Service	Monages eventes	Started	Automatic	Network S	
		COL Server VEE Writer	Provides the interfa	Started	Automatic	Local Service	
		CCDD Diservery	Provides die interna	Starteu	Disabled	Local System	
		Ch Superfetch	Maintaine and impre		Disabled	Local Service	
		Custom Event Netification Convice	Manitaris and impro	Charled	Automatic	Local System	
		Tack Scheduler	Forblas a user to co	Started	Automatic	Local System	
			chables a user to com	Starteu	Automatic	Local System	
		•					
	Extended Standard						

Figure 3.6.13 Manually starting the SQL server service

3.6.3 CONFIGURATION OF A WINDOWS ACCOUNT FOR USE WITH SQL SERVER

Now that you have successfully installed and started SQL Server, you must create an account that will allow the RAYCHEM Supervisor Master Server to access the service.

To accomplish this, go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPUTER MANAGEMENT » LOCAL USERS & GROUPS » USERS.



Figure 3.6.14 Creating a new local user

Right click in the Name area (right-hand side) of the window and click on New User. You may choose any name that you wish for the account, but a name that is representative of the account's use is recommended. For example, "RAYCHEM Master" could be used. Complete each field making specific note of the User name and Password, as these parameters will be required when setting up the Master Server Software. Click "Create" to complete the operation.

New User	<u>?</u>	×
<u>U</u> ser name:	Raychem Master	
<u>F</u> ull name:	Raychem Master	
Description:		
Password:	•••••	
<u>C</u> onfirm passwor	d:	
User <u>m</u> ust ch	hange password at next logon	
User cannot	change password	
Password ne	ever expires	
🗌 Account is di	isabled	
		_
<u>H</u> elp	Create Close	

Figure 3.6.15 New user setup

Once the user has been created, it will appear in the user list. Right click on the new user name and go to Properties. Once in the Properties window, choose the General tab and ensure that User cannot change password and Password never expires are both selected.

Raychem Master P	roperties	? >
General Member ()f Profile	
Rayche	m Master	
<u>F</u> ull name:	Raychem Master	
Description:		
🔲 User <u>m</u> ust cha	nge password at next logon	
✓ User <u>c</u> annot cl	nange password	
Password neve	er expires	
Account is disa	abled	
🗖 Account is l <u>o</u> c	ked out	
(OK Cancel <u>A</u> pply	Help

Figure 3.6.16 New user properties

Next, choose the Member Of tab	and click on the A	dd button.
--------------------------------	--------------------	------------

Raychem Master Properties	? ×
General Member Of Profile	
Member of:	
A Users	
Changes to a user's group member	ehin
Add Bemove are not effective until the next time user logs on.	the
OK Cancel Apply H	lelp

Figure 3.6.17 New user group assignment

In the list of groups, choose Administrators and then click on "Add". This step will ensure that the RAYCHEM Master Server user will have the access it needs to interact with the SQL Server service.

-

Select Groups	<u>? ×</u>
Select this object type:	
Groups	Object Types
From this location: WIN-432TYEQNQKB	Locations
Enter the object names to select (examples):	
WIN-432TYFQNQKB\Administrators	Check Names
Advanced	OK Cancel

Figure 3.6.18 Set the new user as an administrator

Once the Administrators group has been added, the new user should be a member of both the Administrators and Users groups.

Raychem Master Properties	? X
General Member Of Profile	
Member of:	
Administrators We Users	
Add Changes to a user's group member are not effective until the next time user logs on.	ship the
OK Cancel <u>A</u> pply H	elp

Figure 3.6.19 User Membership List

Click on "Apply" and then "OK." The new user name should be added to the list.



Figure 3.6.20 Addition of the new user

3.6.4 WINDOWS SERVER LICENSING

The computer on which SQL Server is installed must use Microsoft Windows 2003 Server or Windows 2008 Server as the operating system. The user is responsible for ensuring that the proper licensing following the latest requirements is obtained from Microsoft for legal use of Windows Server and User or Device connections.

A number of options for Windows Server Client Access Licenses (CALs) are available from Microsoft. For a detailed description of the various options, see the Microsoft Website at www. microsoft.com/resources/sam/lic_cal.mspx .

Typical RAYCHEM Supervisor systems will use a mix of Device and User CALs. You will need to purchase a separate Windows Server Device CAL for each Master and Slave Server and a separate Windows Server User CAL for each user in your RAYCHEM system.

3.7 UNINSTALLING MICROSOFT SQL SERVER 2008

You may remove Microsoft SQL Server 2008 from your computer system by following these steps:

- 5. Click the START button, then Select Control Panel.
- 6. Double-Click Add/Remove Programs.
- 7. In the list of installed programs, select Microsoft SQL Server 2008. Click on the Remove button.

1-1-1-1

8. Follow the instructions that appear on the screen.

😥 Add or Ren	nove Programs		<u>- U ×</u>
5	Currently installed programs:	Sort by: Name	V
Change or Remove Programs	C Microsoft Office Professional Plus 2010	Size	751.00MB
	🥪 Microsoft Silverlight	Size	1.30MB
- 🌄 -	Solution Sector Silverlight 3 SDK	Size	31.93MB
Add <u>N</u> ew Programs	Ø Microsoft Silverlight 4 SDK	Size	51.68MB
-	Microsoft SQL Server 2000	Size	45.25MB
.	Microsoft SQL Server 2005	Size 1	1,755.00MB
Add/Remove <u>W</u> indows	Microsoft SQL Server 2005 Backward compatibility	Size	26.18MB
Components	Microsoft SQL Server 2005 Books Online (English)	Size	123.00MB
(Microsoft SQL Server 2005 Mobile [ENU] Developer Tools	Size	66.95MB
Set Program	Microsoft SQL Server 2008	Size	1,513.00MB
Access and Defaults	Click here for support information.	Used g	occasionally
		Last Used On	17/06/2013
	To change this program or remove it from your computer, click Change/Remove.	Chang	e/Remove
	Microsoft SQL Server 2008 R2	Size	1,703.00MB
	Microsoft SQL Server 2008 R2 Native Client	Size	4.58MB
	Microsoft SQL Server 2008 R2 Setup (English)	Size	37.15MB
	Microsoft SQL Server 2008 Setup Support Files	Size	26.36MB
	Microsoft SQL Server Browser	Size	8.98MB 🗾

Figure 3.7.1 Remove Microsoft SQL Server 2008

3.8 INSTALLING MICROSOFT SQL SERVER 2012 TO 2019

The installation procedures for Microsoft SQL Server 2012 to 2019 are quite similar therefore the steps described in this section can be used for all identified versions of Microsoft SQL Server.

To install Microsoft SQL Server insert the required media and execute the applicable *Setup.exe file.



IMPORTANT: This section applies to RAYCHEM Supervisor Enterprise, versions 2.2 and later. If you are installing version 2.1 and earlier, you should refer to Section 3.2 of this guide.

IMPORTANT: If you are upgrading from a standard (SQL EXPRESS) version of RAYCHEM Supervisor, be sure to follow the procedure in the SQL EXPRESS Installation manual to uninstall SQL EXPRESS first. Ensure that you have completed all of the steps or the SQL Server may not install properly.

3.8.1 INSTALLING THE DATABASE SERVER COMPONENTS

Once the "SQL Server installation Center" screen appears, click on "Installation" menu item, and select "New SQL Server stand-alone installation or add features to an existing installation". The setup will perform a series of diagnostic to identify problems before allowing the installation to continue. If no problems are reported, you will be prompted to input the License key and you must accept the License terms when the Microsoft SQL Server License Terms appears.



Figure 3.8.1 SQL Server Installation Center

Setup Support Ru	25	
Setup Support Rules ide corrected before Setup c	tify problems that might occur when you install SQL Server Set n continue.	tup support files. Failures must be
Setup Support Rules	Operation completed. Passed: 9. Failed 0. Warning 0.	Skipped 0.
	Hide detailg << View detailed report	<u>R</u> e-run
	Rule	Status
	Setup administrator	Passed
	Setup account privileges	Passed
	Restart computer	Passed
	Windows Management Instrumentation (WMI) ser	rvice <u>Passed</u>
	Consistency validation for SQL Server registry keys	Passed
	Long path names to files on SQL Server installation	n media Passed
	SQL Server Setup Product Incompatibility	Passed
	.NET 2.0 and .NET 3.5 Service Pack 1 update for Wi	indows 2008 Passed
	Edition WOW64 pl .NET 2.0 and .NET 3.5 Service P	ack 1 update for Windows 2008 R2 and Windows 7

Figure 3.8.2 SQL Server Setup Support Rules

1	SQL Server 2012 Setup	x
Product Key Specify the edition of SQL Serv	ver 2012 to install.	
Product Key License Terms Product Updates Install Setup Files	Validate this instance of SQL Server 2012 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, such as Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard. © Specify a free edition: Evaluation © Enter the product key: YFC4R-BRRWB-TVP9Y-6WJQ9-MCJQ7	< III
	< <u>B</u> ack <u>N</u> ext > Cancel	

Figure 3.8.3 SQL Server Product Key

1	SQL Server 2012 Setup
License Terms To install SQL Server 2012, you	a must accept the Microsoft Software License Terms.
Product Key License Terms Product Updates Install Setup Files	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2012 STANDARD These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft updates, supplements, Internet-based services, and sunnort services I accept the license terms.
	Configuration and how you use SQL Server and its components. See the Microsoft SQL Server 2012 Privacy Statement for more information. Constant
	< Back Mext > Cancel

Figure 3.8.4 SQL Server License Agreement

SQL Server 2012 Setup						x
Setup Support Rules Setup Support Rules identify problems that might occur when you install SQL Server Setup support files. Failures must be corrected before Setup can continue.						
Setup Support Rules Setup Role Feature Selection Installation Rules Disk Space Requirements	Ope Hit <u>Viev</u>	ration completed. Passed: 6. Failed 0. Warning 1. Skipped 0. de detail <u>s</u> << <u>detailed report</u>			<u>R</u> e-ri	un
Installation Configuration Rules Ready to Install Installation Progress Complete		Rule Fusion Active Template Library (ATL) Previous releases of SQL Server 2008 Business Intelligence Devel No SxS install with SQL Server "Denali" CTP0 Consistency validation for SQL Server registry keys Computer domain controller Microsoft .NET Application Security Windows Firewall	Status Passed Passed Passed Passed Passed Warning			
< <u>B</u> ack <u>M</u> ext > Cancel Help						

Figure 3.8.5 SQL Server Setup Support Rules

1	SQL Server 2012 Setup	_ D X		
Setup Support Rules				
Setup Support Rules identif corrected before Setup can	problems that might occur when you install SQL Server Setup s ontinue.	support files. Failures must be		
Setup Support Rules	Operation completed. Passed: 9. Failed 0. Warning 0. Skipped 0.			
	Hide detail <u>s</u> << <u>View detailed report</u>	<u>R</u> e-run		
	Rule	Status		
	Setup administrator	Passed		
	Setup account privileges	Passed		
	Restart computer	Passed		
	Windows Management Instrumentation (WMI) service Passed			
	Consistency validation for SQL Server registry keys	Passed		
	Long path names to files on SQL Server installation me	dia <u>Passed</u>		
	SQL Server Setup Product Incompatibility	Passed		
	.NET 2.0 and .NET 3.5 Service Pack 1 update for Window	ws 2008 Passed		
	Edition WOW64 pl .NET 2.0 and .NET 3.5 Service Pack	1 update for Windows 2008 R2 and Windows 7 (KB9		
		OK Cancel		

Figure 3.8.6 SQL Server Setup Support Rules

For the next couple of screens, follow the on screen instructions. When the "Feature Selection" screen appears, use the "Select All" for a full installation or manually select the feature that is needed. Click on "Next" to continue.



Figure 3.8.7 SQL Server 2012 Feature Selection

The Management Tools option is no longer part of the "Feature Selection" screen. This option resides in the Installation section of the "SQL Server Installation Center" screen. You can install the Management tool separately as required. The Management tool is needed for backup and restore SQL databases.



Figure 3.8.8 SQL Server 2016 Management Studio Installation

1	SQL Server 2012 Setup	,	J X
Installation Rules			
Setup is running rules to determ	ine if the installation process will be blocked. For more information, clic	ck Help.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Operation completed. Passed: 3. Failed 0. Warning 0. Skipped 0. Hide detailg << View detailed report Rule Prior Visual Studio 2010 instances requiring update. Product Update Language Compatibility Microsoft .NET Framework 3.5 is installed on Windows 8 or hig	Status Passed Passed Passed	<u>R</u> e-run
		< <u>B</u> ack <u>N</u> ext > Cancel	Help

Figure 3.8.9 SQL Server Installation Rule

When the "Instance Configuration" screen appears, select Default Instance then click on "Next".

1		SQL Server 2012 S	etup		_ 🗇 🗙
Instance Configuration Specify the name and instance	I ID for the instance of SQL	Server. Instance ID becomes part of the	installation path.		
Setup Support Rules Setup Role Feature Selection	 Default instance Named instance: 	MSSQLSERVER			
Installation Kules Instance Configuration Disk Space Requirements Server Configuration	Instance <u>I</u> D: Instance <u>r</u> oot directory:	MSSQLSERVER C:\Program Files (x86)\Microsoft SQL S	ierver\		
Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install	SQL Server directory:	C:\Program Files (x86)\Microsoft SQL S	Server\MSSQL11.MSSQLSERVER		
Installation Progress Complete	Instance Name	Instance ID	Features	Edition	Version
			< <u>B</u> ack	Next > Cancel	Help

Figure 3.8.10 SQL Server Instance Configuration

Continue until the "Server Configuration" screen is reached. In this screen, you must setup an account name for each Service displayed. Edit them if required otherwise leave them as is. Click on the "Collation" tab and check the Collation settings, edit them if required.

8	SC	L Server 2012 Setup		_ 0 ×
Server Configuration Specify the service accounts and	collation configuration.			
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Service Accounts Collation Microsoft recommends that you use a sep Service SQL Server Agent SQL Server Browser SQL Server Browser	arate account for each SQL Server service. Account Name NT Service\SQLSERVERAGENT NT Service\MSSQLSERVER NT AUTHORITY\LOCAL SERVICE	Password	Startup Type Manual v Automatic v Disabled v
		< Back	Next >	Cancel Help
		< Dock	<u></u> cas *	concer help



Server Configuration specify the service accounts and collation configuration. etup Support Rules etup Role eature Selection nstalledion Rules nstalledion Rules instance Configuration kick Space Requirements inverse Configuration Values Selection natalation Configuration inverse Regime atabase Engine Configuration inverse Regime inverse Configuration atabase Engine Configuration inverse Regime inverse Regime </th <th>1.</th>	1.
Specify the service accounts and collation configuration. etup Support Rules etup Role status Selection istallation Rules erver Configuration atabase Engine SQL_Latin1_General_CP1_C1_AS Latin1-General_Case-insensitive, accent-sensitive, kanatype-insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non-Unicode Data Sublation Configuration istallation Progress omplete	
stup Suppor Rules Service Accounts Collation stup Role Database Engine: stallation Rules SQL_Latin1_General_CP1_CLAS Custometric stance Configuration Latin1-General_case-insensitive, accent-sensitive, kanatype-insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non-Unicode Data atabase Engine Configuration atabase Engine Configuration SQL_Server Sort order 52 on Code Page 1252 for non-Unicode Data Order 52 on Code Page 1252 for non-Unicode Data stallation Configuration Rules stallation Configuration Rules stallation Progress omplete	
	tomize.

Figure 3.8.12 SQL Server Server Collation

When the "Database Engine Configuration" screen appears select Windows Authentication Mode. You must also have to specify a SQL Server administrator on this screen. This should be someone with admin privileges. Click on "Next" to continue.

1	SQL Server 2012 Setup	_ 0 X
Database Engine Confi	guration	
Specify Database Engine auther	nucation security mode, administrators and data directories.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install	Server Configuration Data Directories Specify the authentication mode and administrators for the Database Engine. Authentication Mode	
Complete	WIN-NHVOK3NVGEAE1170909 (E1170909) SQL Add Current User Add	Server administrators have unrestricted ss to the Database Engine.
	< <u>B</u> ack [Next > Cancel Help

Figure 3.8.13 SQL Server Database Engine Configuration

The next sets of screen are for "Error Reporting" and "Installation Configuration Rules". Click on "Next" to continue.

1	SQL Server 2012 Setup	_ 0 ×
Error Reporting Help Microsoft improve SQL S	erver features and services.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Specify the information that you would like to automatically send to Microsoft to improve future releases of optional. Microsoft treats this information as confidential. Microsoft may provide updates through Microsoft data. These updates might be downloaded and installed on your machine automatically, depending on your See the Microsoft SQL Server 2012 Privacy Statement for more information. Read more about Microsoft Update and Automatic Update. Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only user interaction.	SQL Server. These settings are Update to modify feature usage Automatic Update settings.
	< <u>B</u> ack Next	Cancel Help

Figure 3.8.14 SQL Server Error Reporting

1	SQL Server 2012 Set	up	_ 0 ×
Installation Configurat	tion Rules		
Setup is running rules to deten	mine if the installation process will be blocked. For more information,	click Help.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements	Operation completed. Passed: 4. Failed 0. Warning 0. Skipped 0. Hide details_<< <u>View detailed report</u>		<u>R</u> e-run
Server Configuration	Rule	Status	
Database Engine Configuration	FAT32 File System	Passed	
Error Reporting	Existing clustered or cluster-prepared instance	Passed	
Installation Configuration Rules	Cross language installation	Passed	
Ready to Install	Same architecture installation	Passed	
Installation Progress			
Complete			
		< <u>B</u> ack <u>N</u> ex	t > Cancel Help

Figure 3.8.15 SQL Server Installation Configuration Rules

When the "Ready to Install" screen is reached, the setup is ready to install SQL Server onto your computer. Click on "Install" to start the installation.

1	SQL Server 2012 Setup	
Ready to Install Verify the SQL Server 2012 fea	atures to be installed.	
Setup Support Rules Setup Role Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Ready to Install Installation Progress Complete	Ready to install SQL Server 2012: Summary Edition: Standard Action: Install (Product Update) Prerequisites Already installed: Windows PowerShell 2.0 Microsoft Visual Studio 2010 Redistributables Microsoft Visual Studio 2010 Redistributables Microsoft Visual Studio 2010 Shell General Configuration Features Database Engine Services SQL Server Replication Client Tools - Complete Instance Installes Engine: MSSQL SERVER Instance ID: MSSQL SERVER Instance ID: MSSQL SERVER Standa configuration Server englication Client Tools - Complete Instance ID: MSSQL SERVER Instance ID: MSSQL SERVER Instance ID: MSSQL SERVER Standa comengenet rared trait-reflex (x80)/Microsoft SQL Server/ Standa comengenet rared trait-reflex (x80)/Microsoft SQL Server/	
	Configuration file path: C\Program Files \Microsoft SQL Server\ C\Program Files \Microsoft SQL Server\110\Setup Bootstrap\Log\20170213_122718\ConfigurationFile.ini	
	< <u>B</u> ack Install Can	el Help

Figure 3.8.16 SQL Server Ready to Install

When the installation is complete, Click on "Close" to exit the installation.

1	SQL Serv	ver 2012 Setup 📃 🗖	x
Complete			
Your SQL Server 2012 installat	ion completed successfully with product updates.		
Setup Support Rules Setup Role Feature Selection	Information about the Setup operation or possible no	ext steps: Status	
Installation Rules	Management Tools - Complete Client Tools Connectivity	Succeeded Succeeded	
Instance Configuration Disk Space Requirements	Management Tools - Basic Database Engine Services SOL Server Replication	Succeeded Succeeded Succeeded	
Server Configuration Database Engine Configuration Error Reporting	SQL Browser SQL Writer	Succeeded Succeeded Succeeded	
Installation Configuration Rules Ready to Install	SQL Client Connectivity SDK	Succeeded	
Installation Progress Complete	Details:		
	Viewing Product Documentation for SQL Se Only the components that you use to view and r Viewer component uses the online library. After documentation to your local computer. For more < <u>http://go.microsoft.com/fwlink/?LinkID=224683</u> Microsoft Update For information about how to use Microsoft Updat < <u>http://go.microsoft.com/fwlink/?LinkId=108409</u>	erver manage the documentation for SQL Server have been installed. By default, the Help installing SQL Server, you can use the Help Library Manager component to downloa information, see <u>Use Microsoft Books Online for SQL Server</u> . ≥ ate to identify updates for SQL Server 2012, see the <u>Microsoft Update</u> . ≥ Website.	ed E
	Summary log file has been saved to the following loc <u>C:\Program Files (x86)\Microsoft SQL Server\110\Set</u>	:ation: tup Bootstrap\Log\20170213_122718\Summary_WIN-NHV0K3NVGEJ_20170213_122718.	txt
		Close Hel	p

Figure 3.8.17 SQL Server Installation Complete

3.8.2 STARTING THE SQL SERVER

The SQL Server Service should already be started by the installation. If there is a need to manually start the SQL Server Service, this can be accomplished by simply rebooting the computer or you may start the Server manually as follows:

Go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPONENT SERVICES » SERVICES (LOCAL).

Perform a right click on the SQL Server (MSSQLSERVER) entry and click on "start."

		Component services							
<u>File Action View Winde</u>	ow <u>H</u> elp						_		
Þ 🔿 🙍 🖬 🖄	👔 🕨 🔳 🕪								
Console Root	Services (Local)	O Services (Local)							
	SOL Server (MSSOLSERVER)	Name	Description	Status	Startup Type	Lot ^	Services		
	Site Server (inss teserver)	Secondary Logon	Enables startin		Manual	Lo	More		
	Stop the service	Secure Socket Tunneling Protocol S	Provides suppo		Manual	Lot			
	Pause the service	Security Accounts Manager	The startup of t	Running	Automatic	Lo	SQL Ser.		
	Restart the service	Server .	Supports file, p	Running	Automatic	Lo	More		
		Shell Hardware Detection	Provides notific	Running	Automatic	Lo			
	Description:	Simple Mail Transfer Protocol (SMTP)	Transports elec	-	Manual	Loc			
	Provides storage, processing and	🔍 Smart Card	Manages acces		Disabled	Lo			
	transaction processing.	🔍 Smart Card Device Enumeration Ser	Creates softwar		Manual (Trig	Lo			
		🛸 Smart Card Removal Policy	Allows the syst		Manual	Loc			
		🔍 SNMP Trap	Receives trap		Manual	Loc			
		Software Protection	Enables the do		Automatic (D	Ne			
		🛸 Special Administration Console Hel	Allows adminis		Manual	Lo			
		🔍 Spot Verifier	Verifies potenti		Manual (Trig	Lo			
		👊 SQL Server (MSSQLSERVER)	Provides storag	Running	Automatic	NT			
		SQL Server Agent (MSSQLSERVER)	Executes jobs,		Manual	NT			
		🔍 SQL Server Browser	Provides SQL S		Disabled	Lo			
		🔍 SQL Server CEIP service (MSSQLSER	CEIP service for	Running	Automatic	NT			
		🖏 SQL Server VSS Writer	Provides the int	Running	Automatic	Lo			
		🔍 SSDP Discovery	Discovers netw		Disabled	Lo(≡			
		🧠 Storage Tiers Management	Optimizes the		Manual	Lo			
		😘 Superfetch	Maintains and i		Manual	Lo			
		🔍 System Event Notification Service	Monitors syste	Running	Automatic	Lo			
		🔍 System Events Broker	Coordinates ex	Running	Automatic (T	Lo			
		🖓 Task Scheduler	Enables a user t	Running	Automatic	Lo			
		🔍 TCP/IP NetBIOS Helper	Provides suppo	Running	Automatic (T	Lo			
		🔍 Telephony	Provides Telep		Manual	Ne			
		😘 Telnet	Enables a remo		Disabled	Lo			
		🔍 Themes	Provides user e	Running	Automatic	Lo			
		Chread Ordering Server	Provides ordere		Manual	Lo			
		N				1			

Contraction and the second		Component Services						
Eile Action View Windo	bw Help							- 14
🖷 🖸 🗐 🚺 🖄 🦛								
Console Root	Services (Local)						Action	s
 Image: Services Image: Event Viewer (Local) Services (Local) 	SOL Services (MSSOLSERVER)	Name	Description	Status	Startup Type	Lor	Servi	res
	SQL SEIVEI (MSSQLSLIVEII)	Secondary Logon	Enables startin		Manual	Lo	Jerri	
	Stop the service	Secure Socket Tunneling Protocol S	Provides suppo		Manual	Lo		ore
	Pause the service	Security Accounts Manager	The startup of t	Running	Automatic	Lo	SQL S	Ser.
	Restart the service	Server	Supports file, p	Running	Automatic	Lo	M	lore
		Shell Hardware Detection	Provides notific	Running	Automatic	Lo		
	Description:	Simple Mail Transfer Protocol (SMTP)	Transports elec		Manual	Lo		
	Provides storage, processing and	Smart Card	Manages acces		Disabled	Loc		
	controlled access of data, and rapid	Smart Card Device Enumeration Ser	Creates softwar		Manual (Trig	Loc		
	dansaction processing.	Smart Card Removal Policy	Allows the syst		Manual	Lot		
		SNMP Trap	Receives trap		Manual	Lo		
		Software Protection	Enables the do		Automatic (D	Ne		
		Special Administration Console Hel	Allows adminis		Manual	Lo		
		Spot Verifier	Verifies potenti		Manual (Trig	Lot		
		Q SQL Server (MSSQLSERVER)	Provides storag	Running	Automatic	NT		
		SQL Server Agent (MSSQLSERVER)	Executes jobs,		Manual	NT		
		🛸 SQL Server Browser	Provides SQL S		Disabled	Lo		
		SQL Server CEIP service (MSSQLSER	CEIP service for	Running	Automatic	NT		
		🔍 SQL Server VSS Writer	Provides the int	Running	Automatic	Lo		
		🔍 SSDP Discovery	Discovers netw		Disabled	Lo(≡		
		🍓 Storage Tiers Management	Optimizes the		Manual	Lo		
		🔍 Superfetch	Maintains and i		Manual	Loc		
		🍓 System Event Notification Service	Monitors syste	Running	Automatic	Lo		
		🍓 System Events Broker	Coordinates ex	Running	Automatic (T	Lo		
		🔍 Task Scheduler	Enables a user t	Running	Automatic	Lo		
		🔍 TCP/IP NetBIOS Helper	Provides suppo	Running	Automatic (T	Lo		
		🖓 Telephony	Provides Telep		Manual	Ne		
		🔍 Telnet	Enables a remo		Disabled	Lo		
		🔍 Themes	Provides user e	Running	Automatic	Lo		
		A Thread Ordering Server	Provides ordere		Manual	Lo: ~		
						1.5	E	

Figure 3.8.18 Manually starting the SQL Server Service

3.8.3 CONFIGURATION OF A WINDOWS ACCOUNT FOR USE WITH SQL SERVER

Now that you have successfully installed and started Microsoft SQL Server, you must create an account that will allow the RAYCHEM Supervisor Master Server to access the Microsoft SQL Server service.

To accomplish this, go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPUTER MANAGEMENT » LOCAL USERS & GROUPS » USERS.



Figure 3.8.19 Current System Users

Right click in the Name area (right-hand side) of the window and click on New User. You may choose any name that you wish for the account, but a name that is representative of the account's use is recommended. For example, "RAYCHEM Master" could be used. Complete each field making specific note of the User name and Password, as these parameters will be required when setting up the Master Server Software. Click "Create" to complete the operation.

		New U	Jser		?	x
<u>U</u> ser name:	Raychem	Master				
<u>F</u> ull name:	Raychem	Master				
Description:						
<u>P</u> assword:	••	•••••	•••			
<u>C</u> onfirm passwor	i: ••	•••••	•••			
User <u>m</u> ust ch	ange passw	ord at next	logon			
User cannot	hange pass	sword				
Password net	ver expires					
Account is di	a <u>b</u> led					
<u>H</u> elp				Cr <u>e</u> ate	Cl <u>o</u> s	se

Figure 3.8.20 New user setup

Once the user has been created, it will appear in the user list. Right click on the new user name and go to Properties. Once in the Properties window, choose the General tab and ensure that User cannot change password and Password never expires are both selected.

	Ray	ycher	m Master F	ropertie	5	?)
Remote co	ntrol	Ren	note Desktop \$	Services Pro	ile	Dia	l-in
General	Member	r Of	Profile	Environm	ient	Sess	ions
Ra Ra	ychem Ma	ster					
<u>F</u> ull name:	F	Rayche	m Master				
Description:	Γ						
User must User cann Password Account i	change pa not change never expi s disa <u>b</u> led s l <u>o</u> cked ou	asswor passw ires .t	d at next logor rord	1			

Figure 3.8.21 RAYCHEM Master User Properties

Raychem Master Properties ? X							
Remote control	Remot	te Desktop S	Services Profile	Dial-in			
General Memb	oer Of	Profile	Environment	Sessions			
Member of:							
🜆 Users							
		Changes t	o a user's group me	mbership			
A <u>d</u> d	Remove	are not eff user logs (ective until the next on.	time the			
		2					
0	К	Cancel	Apply	Help			

Next, choose the Member Of tab and click on the Add button.

Figure 3.8.22 User group membership assignment

In the list of groups, choose Administrators and then click on "Add". This step will ensure that the RAYCHEM Master Server user will have the access it needs to interact with the SQL Server service.

Select Groups	×
<u>S</u> elect this object type:	
Groups	Object Types
From this location:	
WIN-NHV0K3NVGEJ	Locations
Enter the object names to select (<u>examples</u>):	
WIN-NHV0K3NVGEJ\Administrators	Check Names
Advanced 0	K Cancel

Figure 3.8.23 New User group assignment

Once the Administrators group has been added, the new user should be a member of both the
Administrators and Users groups.

R	aychem	Master P	roperties	?	x		
Remote control Remote Desktop Services Profile Dial-in							
General Memb	er Of	Profile	Environment	Sess	ions		
Member of:							
Administrators							
Add	<u>e</u> move	Changes t are not eff user logs o	o a user's group me ective until the next on.	mbershi time the	D 3		
0	ĸ	Cancel	Apply	He	elp		

Figure 3.8.24 User membership list

Click on "Apply" and then "OK." The new user name should be added to the list.



Figure 3.8.25 Addition of user 'RAYCHEM Master'

3.8.4 WINDOWS SERVER LICENSING

The computer on which SQL Server is installed must use Microsoft Windows® 2008 Server or higher as the operating system. The user is responsible for ensuring that the proper licensing following the latest requirements is obtained from Microsoft for legal use of Windows® Server and User or Device connections.

A number of options for Windows Server Client Access Licenses (CALs) are available from Microsoft. For a detailed description of the various options, see the Microsoft Website at www. microsoft.com/resources/sam/lic_cal.mspx .

Typical RAYCHEM Supervisor systems will use a mix of Device and User CALs. You will need to purchase a separate Windows Server Device CAL for each Master and Slave Server and a separate Windows Server User CAL for each user in your RAYCHEM Supervisor system.

3.9 UNINSTALLING MICROSOFT SQL SERVER 2012 TO 2019

You may remove Microsoft SQL Server from your computer system by following these steps:

- 1. Click the START button, then Select Control Panel.
- 2. Double-Click Add/Remove Programs.
- 3. In the list of installed programs, select Microsoft SQL Server. Click on the Remove button.
- 4. Follow the instructions that appear on the screen.

		Programs an	d Features			_ 0	х
	💿 💿 🔹 🏦 🕨 Control Pa	anel		~ ¢	, Search Pr	ograms and Features	9
	Control Panel Home	Uninstall or change a program					
	View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.				
	Turn Windows features on or						
	off	Organize 🔻 Uninstall/Change				122 -	•
		Name	Publisher	Installed On	Size	Version	
		Microsoft .NET Framework 4 Multi-Targeting Pack	Microsoft Corporation	2/14/2017	83.4 MB	4.0.30319	
		😼 Microsoft Help Viewer 1.1	Microsoft Corporation	2/14/2017	3.97 MB	1.1.40219	
		Microsoft Report Viewer 2012 Runtime	Microsoft Corporation	2/14/2017	26.2 MB	11.0.2100.60	
		📑 Microsoft SQL Server 2008 R2 Management Objects	Microsoft Corporation	2/14/2017	15.3 MB	10.51.2500.0	
		Microsoft SQL Server 2008 Setup Support Files	Microsoft Corporation	2/14/2017	28.2 MB	10.1.2731.0	
		Microsoft SQL Server 2012	Microsoft Corporation	2/14/2017			
		Microsoft SQL Server 2012 Native Client	Microsoft Corporation	2/14/2017	7.22 MB	11.3.6020.0	_
		Microsoft SQL Server 2012 Policies	Microsoft Corporation	2/14/2017	996 KB	11.0.2100.60	
		Microsoft SQL Server 2012 Setup (English)	Microsoft Corporation	2/14/2017	42.5 MB	11.3.6020.0	
		Microsoft SQL Server 2012 Transact-SQL Compiler Ser	Microsoft Corporation	2/14/2017	84.8 MB	11.0.2100.60	
		Microsoft SQL Server 2012 Transact-SQL ScriptDom	Microsoft Corporation	2/14/2017	4.54 MB	11.3.6020.0	Ŧ
		Microsoft SQL Server System CLR Types	Microsoft Corporation	2/14/2017	2.53 MB	10.51.2500.0	
		Microsoft System CLR Types for SQL Server 2012	Microsoft Corporation	2/14/2017	1.68 MB	11.3.6020.0	
		Microsoft Visual C++ 2008 Redistributable - x64 9.0.30	Microsoft Corporation	2/13/2017	13.2 MB	9.0.30729.6161	
		Microsoft Visual C++ 2008 Redistributable - x86 9.0.30	Microsoft Corporation	2/13/2017	10.1 MB	9.0.30729.4148	
		Microsoft Visual C++ 2008 Redistributable - x86 9.0.30	Microsoft Corporation	2/14/2017	10.1 MB	9.0.30729.4974	
		Microsoft Visual C++ 2010 x64 Redistributable - 10.0	Microsoft Corporation	2/14/2017	13.8 MB	10.0.40219	
		Microsoft Visual C++ 2010 x86 Redistributable - 10.0	Microsoft Corporation	2/14/2017	11.1 MB	10.0.40219	
		Microsoft Visual C++ 2010 x86 Runtime - 10.0.40219	Microsoft Corporation	2/14/2017	15.9 MB	10.0.40219	
		🛞 Microsoft Visual Studio 2010 Shell (Isolated) - ENU	Microsoft Corporation	2/14/2017	579 MB	10.0.40219	
		Microsoft VSS Writer for SQL Server 2012	Microsoft Corporation	2/14/2017	2.92 MB	11.3.6020.0	
		🍓 Raychem Supervisor Client	Pentair Thermal Management	2/14/2017	35.0 MB	2.7.97.6412	- 17
		Raychem Supervisor Master Server	Pentair Thermal Management	2/14/2017	5.19 MB	2.7.97.6412	
		SAP Crystal Reports runtime engine for .NET Framew	SAP	2/14/2017	207 MB	13.0.1.220	
		SQL Server Browser for SQL Server 2012	Microsoft Corporation	2/14/2017	9.89 MB	11.3.6020.0	~
		Microsoft Corporation Help link: http://c	jo.microsoft.com/fwlink/?Linkld=1	54582			

Figure 3.9.1 Remove Microsoft SQL 2012 Server

		Programs	and Features			_ 0	x
	💿 🕤 🛧 🛅 🕨 Control P	anel		~ C	Search Pr	ograms and Features	P
	Control Panel Home	Uninstall or change a program					
	View installed updates	To uninstall a program, select it from the list and t	hen click Uninstall. Change, or Repair.				
	Turn Windows features on or						
-	off	Organize 🔻 Uninstall/Change					0
		Name	Publisher	Installed On	Size	Version	
		Microsoft .NET Framework 4.5.1 Multi-Targeting Pa	ck Microsoft Corporation	2/13/2017	49.3 MB	4.5.50932	
		Microsoft .NET Framework 4.5.1 Multi-Targeting Pa	c Microsoft Corporation	2/13/2017	74.5 MB	4.5.50932	
		Microsoft .NET Framework 4.5.1 SDK	Microsoft Corporation	2/13/2017	19.4 MB	4.5.51641	
		Microsoft .NET Framework 4.5.2 Multi-Targeting Pa	ck Microsoft Corporation	2/13/2017	49.4 MB	4.5.51209	
		Microsoft .NET Framework 4.5.2 Multi-Targeting Pa	c Microsoft Corporation	2/13/2017	74.4 MB	4.5.51209	
		Hicrosoft Help Viewer 2.2	Microsoft Corporation	2/13/2017	12.1 MB	2.2.23107	
		Microsoft ODBC Driver 13 for SQL Server	Microsoft Corporation	2/13/2017	4.80 MB	13.0.1601.5	
		Microsoft SQL Server 2008 Setup Support Files	Microsoft Corporation	2/13/2017	39.0 MB	10.3.5500.0	
		Microsoft SQL Server 2012 Native Client	Microsoft Corporation	2/13/2017	7.19 MB	11.3.6518.0	
		Microsoft SQL Server 2014 Management Objects	Microsoft Corporation	2/13/2017	24.7 MB	12.0.2000.8	-
		Microsoft SQL Server 2016	Microsoft Corporation	2/13/2017			
		Microsoft SQL Server 2016 (64-bit)	Microsoft Corporation	2/13/2017			
		Microsoft SQL Server 2016 Policies	Microsoft Corporation	2/13/2017	1.03 MB	13.0.1601.5	_
		Microsoft SQL Server 2016 Setup (English)	Microsoft Corporation	2/13/2017	170 MB	13.0.1711.0	
		Microsoft SQL Server 2016 T-SQL Language Service	Microsoft Corporation	2/13/2017	7.25 MB	13.0.14500.10	
		Microsoft SQL Server 2016 T-SQL ScriptDom	Microsoft Corporation	2/13/2017	7.35 MB	13.0.1601.5	
		Microsoft SQL Server Data-Tier Application Framew	or Microsoft Corporation	2/13/2017	18.3 MB	13.0.3432.1	-
		Server Management Studio - 16.4.1	Microsoft Corporation	2/13/2017	2.76 GB	13.0.15900.1	
		Microsoft System CLR Types for SQL Server 2014	Microsoft Corporation	2/13/2017	5.69 MB	12.0.2402.11	
		Microsoft System CLR Types for SQL Server 2016	Microsoft Corporation	2/13/2017	5.63 MB	13.0.1601.5	
		Microsoft Visual C++ 2008 Redistributable - x64 9.0.	30 Microsoft Corporation	2/13/2017	13.2 MB	9.0.30729.6161	
		Microsoft Visual C++ 2008 Redistributable - x86 9.0.	30 Microsoft Corporation	2/13/2017	10.1 MB	9.0.30729.4148	
		Microsoft Visual C++ 2010 x64 Redistributable - 10.	0 Microsoft Corporation	2/13/2017	13.8 MB	10.0.40219	
		Microsoft Visual C++ 2010 x86 Redistributable - 10.	0 Microsoft Corporation	2/13/2017	11.0 MB	10.0.40219	
		Microsoft Visual C++ 2013 Redistributable (x64) - 12	.0 Microsoft Corporation	2/13/2017	20.5 MB	12.0.21005.1	
		Microsoft Corporation Help link: http	p://go.microsoft.com/fwlink/?Linkld=1	54582			

Figure 3.9.2 Remove Microsoft SQL 2016 Server

3.10 INSTALLING RAYCHEM SUPERVISOR

The installation program will start up the Installation Wizard, which will guide you through the installation process. You are required to read and accept the Software License Agreement. Once you read and agree with the license agreement, click the Yes button and the installation will continue. If you do not agree with the license agreement, click No and the installation will terminate.



Note: The following Sections assume that you have already installed a database application (either SQL EXPRESS or SQL Server) on the same computer as the one where the RAYCHEM Supervisor Master Server software will be installed. If you have not yet completed this step, refer to Sections 3.2, 3.4, 3.6, or 3.8 for additional information on how to do this.

3.10.1 INSTALLING RAYCHEM SUPERVISOR MASTER SERVER

To start the RAYCHEM Master Server installation, insert the "RAYCHEM Supervisor Disk 1 – Application and Utilities" CD (SQL versions) into the PC's CD-Rom drive. Navigate to the Installation folder and double click on the RAYCHEM SupervisorMasterServerSetup.exe file. The installation begins by checking the computer for software components that are required to run RAYCHEM Supervisor. If there are components missing, it will install them for you. You may be asked to reboot your computer during the installation of those components, please select Yes to reboot.

🐞 Raychem Supervisor Master Server Setup	×
The following components will be installed on your machine:	
Microsoft .NET Framework 4 (x86 and x64)	
Do you wish to install these components?	
If you choose Cancel, setup will exit.	
Install Cancel	

Figure 3.10.1 Setup screen showing missing components to be installed

If there are no missing components the "Welcome to the RAYCHEM Supervisor Master Server Setup Wizard" screen will appear. Click on "Next" to continue to the License Agreement.

🞲 Raychem Supervisor Master Server Setup	_		×
Welcome to the Raychem Supervisor Master Server Setup Wizard	nv	lent	YCHEM
The installer will guide you through the steps required to install Raychem Sup on your computer. This software requires Microsoft .NET Framework 4.0, Mic Components (MDAC) version 2.7 or higher, Microsoft SQL Server 2000 or hig Express.	ervisor N rosoft D gher, or I	faster Se ata Acce: Microsoft	rver SS SQL
WARNING: This computer program is protected by copyright law and interna Unauthorized duplication or distribution of this program, or any portion of it, ma or criminal penalties, and will be prosecuted to the maximum extent possible u	tional tre ay result Inder the	aties. in severe alaw.	civil
Cancel <u>B</u> ack		<u>N</u> ext	

Figure 3.10.2 Welcome screen for RAYCHEM Supervisor Master Server installation

🖟 Raychem Supervisor Master Serve	r Setup	_		×
License Agreement			nvent	AYCHEM
Please take a moment to read the licens Agree'', then "Next". Otherwise click "C	e agreement now. If you ancel''.	accept the term	s below, clic	k''I
nVent Thermal, LLC				^
Raychem Super∨isor™ Progra	m Software License Agre	ement		
PLEASE REVIEW THE FOLLO LICENSE AGREEMENT (THE AGREEMENT BETWEEN YOU ("NVENT THERMAL"). THE TE THE RAYCHEM SUPERVISO	WING TERMS AND CON "AGREEMENT") CAREF J, THE END USER, AND RMS OF THIS AGREEM R PROGRAM, THIRD PA	IDITIONS OF TH ULLY. THIS IS A NVENT THERM IENT GOVERN Y RTY SOFTWARE	IS SOFTWAR LEGAL AL, LLC 'OUR USE (IF	RE DF
◯ I <u>D</u> o Not Agree	● I Agree			
	Cancel	<u>B</u> ack	<u>N</u> e>	«t

Figure 3.10.3 License Agreement for RAYCHEM Supervisor Master Server

Continue with the next few screens until the Installation complete screen. At this point, the RAYCHEM Supervisor Master Server software is already installed in your computer, however the next step is to associate the SQL Server that will be used by the RAYCHEM Supervisor Master Server. The RAYCHEM Supervisor Master Server Configuration Utility will guide you from this point on.

🕼 Raychem Supervisor Master Server Setup	_		×
Installation Complete	n	Vent R	AYCHEM
Raychem Supervisor Master Server has been successfully installed.			
The Raychem Supervisor master server has been installed, but still needs to operations.	be coni	figured for	proper
Please click "Close" to start the configuration utility.			
Please use Windows Update to check for any critical updates to the .NET F	ramewo	ırk.	
Cancel <u>B</u> ack		<u>C</u> los	e

Figure 3.10.4 RAYCHEM Supervisor Master Server Installation Complete



Figure 3.10.5 RAYCHEM Supervisor Master Server Configuration Utility

You will be prompted to enter a Database Server Name – enter the name that was defined during the database installation process (see Figures 3-2-6, 3-4-5 or 3-6-6). If you did not enter a specific database Instance name as instructed, then the name will simply be the Master Server computer name. If you do not recall your computer name, you can find it by performing a right click on My Computer and going to Properties. Once the window opens, click on the Computer Name tab.

Once you know your Computer Name enter it into the Database Server Name field and click on "Next." (Refer to Figure 3.8.6)

Master Server Configuration Utility 3.0.142	_		\times
SQL Server Information	nvei	nt RAYC	HEM
Please specify the SQL server you want to use as the datastore.			
SQL server name CAED1L8301\SQL2019			
CANCEL < <u>B</u> ACK		NEXT	

Figure 3.10.6 RAYCHEM Supervisor database server information screen

If you are installing over an existing RAYCHEM Supervisor installation, you will be prompted to choose an Existing System Database option, otherwise the Confirm Configuration screen will be displayed.

Master Server Configuration Utility 3.0.142	_		×
Existing System Database Options	nve	nt RAYC	HEM
A system database named 'EHTPLUS' already exists in the specified SQL server.Please choose one of the following options:			
 Keep existing database Back up existing database, delete it, then create a new one Backup file Restore from a backup file, deleting existing database Delete existing database, then create a new one 			
CANCEL < <u>B</u> ACK		NEXT	

Figure 3.10.7 Select an Existing System Database Option screen

There are network specific options that can affect the operations of the Raychem Supervisor Master Server, therefore select the options that are appropriate for your application.

Click "Next" to continue.

Master Server Configuration Utility 3.0.142	_		×
Master Server Networking Options	nvei	nt RAYC	HEM
Master Server Network Address Selection Select a network address to identify the Master Server. By default the first availa address for the computer is used. Use a specific Network Address for the Master Server: 10.19.5.40	ble networ	k	
Firewall Settings	outer's		
CANCEL < BACK		NEXT	

Figure 3.10.8 Master Server Networking Options

If there are errors encountered during the installation, please refer to section Appendix – B Troubleshooting on how to correct the problem, otherwise the installation Complete screen is displayed. Make sure the checkbox for the "Restart RAYCHEM Supervisor Master Server for the new configuration to take effect" is checked, then click "Close" to exit the installation.

Master Server Configuration Utility 3.0.142	_		×
Confirm Configuration	nve	nt RAYC	HEM
We now have enough information to begin updating the Raychem Supervisor M configuration.	aster Server		
Click 'Next' to begin.			
CANCEL < BACK		NEXT	

Figure 3.10.9 Confirm Configuration

Master Server Configuration Utility 3.0.142	_		Х
Configuration Complete	兴		
	nver	RAYC	HEM
Raychem Supervisor Master Server configuration has been sucessfully updated.			
Click "Close" to exit.			
Restart Raychem Supervisor Master Server for the new configuration to take effect	:t		
CANCEL < <u>B</u> ACK		<u>C</u> LOSE	

Figure 3.10.10 Installation Complete Screen

3.10.2 CONFIGURING THE MASTER SERVER SOFTWARE

After installing the Master Server Software, perform the following steps to configure the Master Server:

For SQL Server-based installations perform the following additional steps:

You must configure the Master Service to automatically log in to Windows Server. To do this, go to START » SETTINGS » CONTROL PANEL » ADMINISTRATIVE TOOLS » COMPONENT SERVICES » SERVICES (LOCAL) » RAYCHEM SUPERVISOR MASTER SERVER SERVICE.

Component Services						_1	<u>ı</u> ×
Eile Action View Wind	low <u>H</u> elp						<u> </u>
← → 🗈 🖬 🖆 [🗟 😫 🖬 🕨 🔳 🗉 🖦						
Component Services Component Services Component Services Component Services Component Services Component Services Services Component Servi	Services (Local)						
	Services (Local)	_					
a services (cocer)	Raychem Supervisor Master Server	Name 🔺	Description	Status	Startup Type	Log On As	1
	Service	Net. Tcp Port Sharing Service	Provides ability to sh		Disabled	Local Service	
		NetMeeting Remote Desktop Sharing	Enables an authorize		Manual	Local System	
	Stop the service	Network Access Protection Agent	Allows windows clien		Manual	Local System	
	Nestal Cole service	Setwork Connections	Manages objects in t	Started	Manual	Local System	
		Network DDE	Provides network tra		Disabled	Local System	
	Description:	Network DDE DSDM	Manages Dynamic D		Disabled	Local System	
	Server. If this service is stopped, most of	Network Location Awareness (NLA)	Collects and stores n	Started	Manual	Local System	
	the Raychem Supervisor functions will fail.	Network Provisioning Service	Manages XML config		Manual	Local System	
	1	NT LM Security Support Provider	Provides security to		Manual	Local System	
	1	Performance Logs and Alerts	Collects performance		Manual	Network S	
		🎭 Plug and Play	Enables a computer t	Started	Automatic	Local System	
		🏶 Portable Media Serial Number Service	Retrieves the serial		Manual	Local System	
	1	Print Spooler	Loads files to memor	Started	Automatic	Local System	
		Service and Storage	Provides protected s	Started	Automatic	Local System	
		No RSVP	Provides network sig		Manual	Local System	1
		Raychem Supervisor Master Server Service	This is the Raychem	Started	Automatic	Local System	
		Remote Access Auto Connection Manager	Creates a connectio		Manual	Local System	
		Remote Access Connection Manager	Creates a network c		Manual	Local System	
		🍓 Remote Desktop Help Session Manager	Manages and control		Manual	Local System	
		Remote Procedure Call (RPC)	Provides the endpoin	Started	Automatic	Network S	
		Remote Procedure Call (RPC) Locator	Manages the RPC na		Manual	Network S	
	1	Remote Registry	Enables remote user	Started	Automatic	Local Service	
	1	Removable Storage			Manual	Local System	
		Routing and Remote Access	Offers routing servic		Disabled	Local System	
	Extended Standard						

Figure 3.10.11 Configure the Master Server

Right click on RAYCHEM Supervisor Master Server Services and select Properties. Once in the Properties window, choose the Log On tab. Select Log On as: and This account. Click on the "Browse" button and choose the new user account that was created in Section 3.6.3. Enter the same password that you used when the account was created.



Note: You must re-enter the password into both the Password and the Confirm Password fields. Click on "Apply" and then "OK."

aychem	Supervi	sor Mas	ter Server Ser	vice Propertie	s (Local Com
General	Log On	Recove	ery Dependenci	es	
Log on	as:				
	al System Allo <u>w</u> serv	account ice to int	eract with deskto	p	
• <u>T</u> his	s account:	- F	.\Raychem Maste	er	<u>B</u> rowse
<u>P</u> as	sword:	ſ	•••••	•••	
<u>C</u> on	firm passw	rord:	•••••	•••	
Help me	e configure	e user ac	count log on opti	ons.	
			OK	- Cruzel	1 0
			OK	Cancel	Apply



If successful, you will be granted access to the Windows Server.



Figure 3.10.13 Access granted to the Windows Server

3.10.3 CONFIGURING MICROSOFT SQL 2000 WITH THE MASTER SERVER

SQL Server 2000 must be configured to allow the Master Server to connect to it. Do this by clicking on START » PROGRAMS » MICROSOFT SQL SERVER » ENTERPRISE MANAGER » MICROSOFT SQL SERVERS » SQL SERVER GROUP » MASTERSVR-SQL1 » DATABASES » EHTPLUS » USERS.



Note: In the example above, the Database Server name is "MASTERSVR-SQL1". In your application, this will be replaced by the Database Server name that was assigned during the database server installation process (refer to Section 3.2, Figure 3-2-6).

SQL Server Enterprise Manager					<u>. ×</u>
⊆onsole <u>W</u> indow <u>H</u> elp					
Console Root\Microsoft SQL Servers\SQL Serve	r Group\MASTERSVR-SQL1 (Win	dows NT)\Databases\ehtp	olus\Users	-0×	
Action View Iools G → 💽 💽 🗡	🖀 🖸 😰 🛛 🔆 🐶 🗌	↓/UUU			
Tree	Users 1 Item				
Console Root	Name 🛆	Login Name Database A	vccess		
🚊 🌗 Microsoft SQL Servers	1 dbo	Permit			
🗄 📵 SQL Server Group	1				
ASTERSVR-SQL1 (Windows NT)	1				
Databases	1				
entplus	1				
Tables	1				
- And Views	1				
- Kored Procedures	1				
💽 Users	1				
- 🕰 Roles	1				
Rules	1				
Defaults	1				
Licer Defined Bunchicor	1				
Ell-Text Catalogs	1				
master	1				
😥 🚺 model	1				
😟 😥 🔋 msdb	1				
🗈 🕖 Northwind	1				
🕀 🔰 pubs	1				
	1				
B- Data Transformation Services	1				
E Replication	1				
E Security	1				
Support Services	1				
🗄 🧰 Meta Data Services					
	1				
	1				
11	1				

Figure 3.10.14 Database users

Right Click on the right hand side of the screen and choose New Database User. In the Database User Properties window, choose the Login name that was created in Section 3.2 (see Figure 3.2.6). If the name does not appear in the list, click on "<new>" to add it.

Database I	User Properties - New User	×I
General		
	Login name: Eermissions	
	User name: BUILTINVAdministrators	
	sa	
<u>D</u> atabas	e role membership:	
	Permit in Database Role	
	db_accessadmin	
	db_securityadmin	
	db_ddladmin	
	db_backupoperator	
	□ db_datareader	
	db_denydatareader	
	P <u>r</u> operties	
		믭
	UN Lancel Help	

Figure 3.10.15 Select the database user

In the SQL Server Login Properties – New Login window, click on the "..." button to browse and pick the user name that was previously created in Section 3.2 (Figure 3-2-6). Click "Add" and then "OK."

SQL Server Login Properties - New Login	X				
General Server Roles Database Access					
MASTERSVR-SQL1\Raychem M					
Authentication	-				
<u> W</u> indows Authentication					
Domain: MASTERSVR-SQL1					
Security access:					
Grant access					
C Deny access					
C SQL Server Authentication Password:					
Defaults Specify the default language and database for this login.	-				
Database: master					
Language: <default></default>					
OK Cancel Help					

Figure 3.10.16 Add a new database user

The Authentication and Defaults fields will automatically be populated with the appropriate information once the new user has been added. Do not modify these settings. Click "OK" to accept.

SQL Server L	5QL Server Login Properties - New Login				
General S	erver Roles D	tabase Access			
4 🜮	lame:	ASTERSVR-SQL1\te	ster		
Authentica	ation				
0	🖲 🔟 indows Aut	entication			
	Do <u>m</u> ain:	MASTERSVR	-SQL1	•	
	Security acce	s:			
	📀 <u>G</u> rant	ccess			
	🔿 Deny-	ccess			
c	<u>SQL</u> Server A	Ithentication		_	
Defaults		J			
S S	pecify the defau	language and databa:	se for this log	jin.	
	atabase:	master		•	
Ŀ	anguage:	<default></default>		•	
		ОК	Cancel	Help	

Figure 3.10.17 Add new database user

After the Login name has been chosen, ensure that both the public and db_owner selections are enabled in the Database role membership area. Then click "OK."

Database	User Properties - New User 🛛 🛛 💌
General	
	Login name: MASTERSVR-SQL1\Ray ▼ User name: MASTERSVR-SQL1\Raych
<u>D</u> atabas	se role membership:
	Permit in Database Role
	db_accessadmin ☐ db_accessadmin ☐ db_securitvadmin
	db_ddladmin db_backupoperator
	 db_datareader db_datawriter
	db_denydatareader db_denydatawriter
	Properties
	OK Cancel Help

Figure 3.10.18 Set database role

The SQL Server Enterprise Manager should now show the RAYCHEM Master Server as a database user.



Figure 3.10.19 New database user created

Close the SQL Server Enterprise Manager window.

3.10.4 CONFIGURING MICROSOFT SQL 2005 WITH THE MASTER SERVER

SQL Server 2005 must be configured to allow the Master Server to connect to it. Do this by clicking on START » PROGRAMS » MICROSOFT SQL SERVER 2005 » SQL SERVER MANAGEMENT STUDIO. You will be prompted to login to the SQL database Server.

J Connect to Server	×
SQL Serve	Microsoft Windows Server System
Server <u>t</u> ype:	Database Engine
<u>S</u> erver name:	WINSERVER2003
<u>A</u> uthentication:	Windows Authentication
<u>U</u> ser name:	WINSERVER2003\Administrator
<u>P</u> assword:	
	☐ Remember password
<u>C</u> onnect	Cancel Help <u>O</u> ptions >>

Once the connection is successful navigate to WINSERVER2003 » DATABASES » EHTPLUS » SECURITY » LOGINS.



Note: In the example above, the Database Server name is "WINSERVER2003". In your application, this will be replaced by the Database this will be replaced by the Database Server name that was assigned during the database server installation process (refer to Section 3.4, Figure 3-4-5).

Figure 3.10.20 Connect to Server



Figure 3.10.21 Microsoft SQL Server Management Studio Logins

Right Click on the right hand side of the screen and choose New Logins. Enter the name that was previously created in section 3.6.3 (i.e. RAYCHEM Master). The Authentication and Defaults fields will automatically be populated with the appropriate information once the new login has been added. Do not modify these settings. Click "OK" to accept.

Login - New					
Select a page	🔜 💁 Script 👻 🚺 Help				
Server Roles	Login name:	WINSERVER2003\Raychem Master	S <u>e</u> arch		
🚰 Securables 🚰 Status					
	Password:				
	Confirm password:				
	Enforce password policy				
	Enforce password expiration	n id at next login			
	C Mapped to certificate				
	C Mapped to asymmetric key	, I			
Connection	Key name:				
Server: CAED1D0129\SQL2005	Default <u>d</u> atabase:	master	•		
Connection: CAED1D0129\ptom	Default language:	<default></default>	*		
View connection properties					
Progress					
Heady					

Figure 3.10.22 New Login

After you've successfully added the new Login, navigate to WINSERVER2003 » DATABASES » EHTPLUS » SECURITY » USERS and add a new user. Enter a new user name such as RAYCHEM Master and use the browse button to select the previously created Login name "RAYCHEM Master" for the Login name field. Select db_accessadmin and db_owner for both Owned Schemas and Role Members field. Click "OK" to save the new user.

Select a page	Provine Buch		
😤 General	Script • 11 Help		
Securables Extended Properties	User name: Login name: <u>C</u> ertificate name: <u>C</u> Key name: <u>C</u> Without login	Raychem Master WINSERVER2003\Raychem Master	
	Default schema: Schemas <u>o</u> wned by this user:	-	
	Owned Schemas		^
	db_backupoperator db_datareader db_datawriter db_datawriter db_ddladmin		
Connection	db_denydatareader		-
Server:	Database role membership:		
CAED1D0129\SQL2005 Connection: CAED1D0129\ptom	Role Members Øb_accessadmin Øb_backupoperator Øb_datareader Øb_datareader Øb_datareader		
Ready	db_ddladmin db_denydatareader db_denydatawriter		<u> </u>
		OK	Cancel

Figure 3.10.23 Add a new database user

After you successfully added the new user, it will appear in the Users screen.

A hen Joop August Country	D6		
(Serv 12) 15 15 15 15 15 15 15	Ø B B B B B P .		
	1 hours		
all all in the last			
	A D Z Y MUR - Minut -		
AED4D6129/502005 (50) Server 9-5-1399-1			
2 Cotabases	1 Heare		
k 🎑 System Databases	0 09013		
k 🥥 Detabere Snapshota	CAED100129550.2009Exit abases/uhtplica/Security/Liners		5 Dat
i 🔰 aftska			
ik 🛄 Extebace Exegrans			
IX _ Tables	Sane	Orested	
II a Vevs	6.00	06/04/2000	
ili 🞑 Sphonyme	Land.	08/04/2000	
is 🔜 Programmability	MINORATION_SCHEMA	14/032005	
in 🔛 Service Broker	1. 110 C	14/10/2005	
is 🛄 provide	A kaychen Hastar	62/54/2015	
St Stores	1		
- m-			
C DAY			
A MONATON TORNA			
110			
A Ayohan Matter			
R La Fore			
8 a scene			
N Configuration			
N Contractor France			
The last spectrum ways			
Second Charles			
back and			
Management			
konfector factors			
5 K/s farmer loant (Armet 18n Modelar)			
2 No mus when before out presents			



You can now close the Microsoft SQL Server Management Studio.
3.10.5 CONFIGURING MICROSOFT SQL 2008 WITH THE MASTER SERVER

SQL Server 2008 must be configured to allow the Master Server to connect to it. Do this by clicking on START » PROGRAMS » MICROSOFT SQL SERVER 2008 » SQL SERVER MANAGEMENT STUDIO. You will be prompted to login to the SQL database Server.

Raychem	Master Pro	perties			? >
General	Member Of	Profile			
<u>M</u> embe	r of:				
🧶 U:	sers				
Δc		Remove	Changes are not eff	to a user's group fective until the n	membership ext time the
	<u></u>	Пошоле		on.	
	ОК		Cancel	Apply	Help

Figure 3.10.25 Connect to Server

Once the connection is successful navigate to WIN-432TYFQNQKB » DATABASES » EHTPLUS » LOGINS.



Note: In the example above, the Database Server name is "WIN-432TYFQNQKB". In your application, this will be replaced by the Database Server name that was assigned during the database server installation process (refer to Section 3.6, Figure 3-6-6).



Figure 3.10.26 Microsoft SQL Server Management Studio Logins

Right Click on the right hand side of the screen and choose New Logins. Enter the name that was previously created in section 3.6.3 (i.e. RAYCHEM Master). The Authentication and Defaults fields will automatically be populated with the appropriate information once the new login has been added. Do not modify these settings. Click "OK" to accept.

Script • 🚺 Help		
Login name:	WIN-432TYFQNQKB\Raychem Master	Sgarch_
Windows authentication		
C SQL Server authentication		
Easeword:	[-
Confirm password:		-
Specify old password		
Qfd password:		-
Frence password polic	y)	
Friorce password egge	ation	
🔽 User must change pass	word at next login	
Mapped to certificate	1	-
C Mapped to asymmetric key	1	-
Map to Credential		* Bdd
Mapped Credentials	Credential Provider	
		Remoye
Default database:	master	•
Default language:	(default)	•
	General general General general General general General general General general General	Generation G

Figure 3.10.27 New Login

After you've successfully added the new Login, navigate to WIN-432TYFQNQKB » DATABASES » EHTPLUS » SECURITY » USERS and add a new user. Enter a new user name such as RAYCHEM Master and use the browse button to select the previously created Login name "RAYCHEM Master" for the Login name field. Select db_accessadmin and db_owner for both Owned Schemas and Role Members field. Click "OK" to save the new user.

Select a page	📓 Script 🔹 🚺 Help		
 General Securables ✓ Extended Properties 	User name: C Login name: C Cetificate name: C Key name: C Without login Defaut schema:	Raychem Master WIN-432TYFQNQKB\DigTrace Master	
	Schemas gwned by this user: Owned Schemas G db_accessadmin db_backuppoentor		
	db_dstareader db_dstareader db_dstareader db_dstareader db_dstareader		_
Connection	db_denydatareader		-
Server:	Database role membership:		
Connection: WIN-432TYFQNQKB'Administrate Wew connection properties	Role Members		
O Ready	db_denydatareader		1

Figure 3.10.28 Add a new database user

After you successfully added the new user, it will appear in the Users screen.

n 57
Oward
0604/2003
0404/300
1410008
1410/2005
E Martine Control of C
ti (la nave) + + + + + + + + + + + + + + + + + + +

Figure 3.10.29 Users

You can now close the Microsoft SQL Server Management Studio.

3.10.6 CONFIGURING MICROSOFT SQL 2012, 2014, 2016 WITH THE MASTER SERVER

SQL Server 2012, 2014, 0r 2016 must be configured to allow the Master Server to connect to it. Do this by clicking on START » PROGRAMS » MICROSOFT SQL SERVER 2012/2014/2016 » SQL SERVER MANAGEMENT STUDIO. You will be prompted to login to the SQL database Server.

eji	Connect to Server		
SQL Server 2012			
Server type:	Database Engine	~	
<u>S</u> erver name:	WIN-NHV0K3NVGEJ	~	
<u>A</u> uthentication:	Windows Authentication	¥	
<u>U</u> ser name:	WIN-NHV0K3NVGEJ\E1170909	~	
Password:			
	Remember password		
<u>C</u> onnect Cancel Help <u>O</u> ptions >>			

Figure 3.10.30 Connect to SQL Server in SQL Server Management Studio



Important: RAYCHEM Supervisor Master Server must be installed before you can configure the Supervisor database. The name of the Supervisor database is EHTPlus.

Once the connection is successful navigate to WIN-NHVOK3NVGEJ » DATABASES » EHTPLUS » LOGINS. Use the View pull down menu and select Object Explorer Details or F7 to show the object details.



MPORTANT: In the example above, the Database Server name is "WIN-NHVOK3NVGEJ". In your application, this will be replaced by the Database Server name that was assigned during the database server installation process (refer to Section 3.8, Figure 3-8-10).

5 OI	bject Explorer Details - Microsoft SQL Ser	ver Management Studio		_ ¤ ×
<u>File Edit View Tools Window Help</u>				
🗄 🚼 🕶 📨 💕 📕 🥔 🔔 New Query 📑 📸 📸	🛐 🕹 中国 - ウ・ウ・ヨ・島 🚮	× -	- 🖄 🗒	
Object Explorer 👻 부 🗙	Object Explorer Details ×			-
Connect 🕶 🚉 💷 🍸 🙋 📓	④ ⑤ ⊉ ≓ ▼ ₂ ₃ Search			•
WIN-NHV0K3NVGEJ (SQL Server 11.0.6020 - WIN Databases	WIN-NHV0K3NVGEJ (SQL Server 11.0.6020 - WIN-	NHV0K3NVGEJ\E1170909)\Secu	urity\Logins	
🖻 🛄 Security	Name	Create Date	Policy Health State	
🖃 🚞 Logins	##MS_PolicyEventProcessingLogin##	2/13/2017 12:43 PM		
##MS_PolicyEventProcessingLogin#	🎄 ##MS_PolicyTsqlExecutionLogin##	2/10/2012 9:07 PM		
##MS_PolicyTsqlExecutionLogin##	A NT AUTHORITY\SYSTEM	2/13/2017 12:42 PM		
A NT AUTHORITY\SYSTEM	MT Service\MSSQLSERVER	2/13/2017 12:42 PM		
MT Service\MSSQLSERVER	NT SERVICE\SQLSERVERAGENT	2/13/2017 12:42 PM		
MT SERVICE\SQLSERVERAGENT	MT SERVICE\SQLWriter	2/13/2017 12:42 PM		
M SERVICE\SQLWriter	MT SERVICE\Winmgmt	2/13/2017 12:42 PM		
M SERVICE\Winmgmt	🧟 sa	4/8/2003 9:10 AM		
2 WINT NITROKONI/CET E1120000	WIN-NHV0K3NVGEJ\E1170909	2/13/2017 12:42 PM		
The Credentials				
Credentials Contographic Providers				
III i Audits				
Server Audit Specifications				
🗑 🧰 Server Objects				
🕫 🥅 Replication				
🗉 🥅 AlwaysOn High Availability				
🗉 🚞 Management				
🗑 🦢 Integration Services Catalogs				
SQL Server Agent (Agent XPs disabled)				
	2			
	Logins			
	9 Items			
< III >				
Ready	•			

Figure 3.10.31 Microsoft SQL Server Management Studio User Logins

Right Click on the right hand side of the screen and choose New Logins. Enter the name that was previously created in section 3.8.3 (i.e. RAYCHEM Master). The Authentication and Defaults fields will automatically be populated with the appropriate information once the new login has been added. Do not modify these settings. Click "OK" to accept.

3	Login -	New		_ 🗆 X
Select a page	🛒 Script 🔻 🛐 Help			
 General Server Roles User Mapping Securables Status 	Login name: <u>W</u> indows authentication <u>SQL</u> Server authentication <u>Password</u> : <u>Confirm</u> password: <u>Specify</u> old password	WIN-NHV0K3NVGEJ\R	aychem Master	Search
Connaction	Qid password: ✓ Enforce password policy ✓ Enforce password expira ✓ User must change passw Mapped to certificate Mapped to asymmetric key Map to Credential	tion vord at next login		✓ ✓ ✓ Add
Server: WIN-NHV0K3NVGEJ Connection: WIN-NHV0K3NVGEJ\E1170909	Mapped Credentials	Credential	Provider	
Progress Ready	Default <u>d</u> atabase: Default language:	master <default></default>		Remo⊻e
			ОК	Cancel

Figure 3.10.32 Adding a New Login to SQL Server

After you've successfully added the new Login, navigate to WIN-NHVOK3NVGEJ » DATABASES » EHTPLUS » SECURITY » USERS and add a new user. Enter a new user name such as RAYCHEM Master and use the browse button to select the previously created Login name "RAYCHEM Master" for the Login name field. Select db_accessadmin and db_owner for both Owned Schemas and Role Members field. Click "OK" to save the new user.

i C	Patabase User - WIN-NHV0K3NVGEJ\Raychem Master	- 🗆 X
Select a page	Script 🔻 🖪 Help	
Image: Control Schemas Image: Membership Image: Securables Image: Securables </th <th>Schemas owned by this user: Owned Schemas Image: db_accessadmin db_baccusporator db_datareader db_datawriter db_ddladmin db_dernydatareader db_dernydatareader db_dernydatareader db_dernydatawriter Image: db_securityadmin guest</th> <th></th>	Schemas owned by this user: Owned Schemas Image: db_accessadmin db_baccusporator db_datareader db_datawriter db_ddladmin db_dernydatareader db_dernydatareader db_dernydatareader db_dernydatawriter Image: db_securityadmin guest	
Connection		
Server: WIN-NHV0K3NVGEJ Connection: WIN-NHV0K3NVGEJ\E1170909 관 View connection properties		
Progress		
Ready		
	ОК	Cancel

Figure 3.10.33 Setting the Owned Schema for the new login user for EHTPlus database

After you successfully added the new user, it will appear in the Users screen.



Figure 3.10.34 Setting the Database roles for the new login user for EHTPlus database You can now close the Microsoft SQL Server Management Studio.

3.10.7 STARTING THE RAYCHEM Supervisor MASTER SERVER SERVICE

The RAYCHEM Supervisor Master Server service must now be started. This can be accomplished by either of the methods described in Section 3.2.2, 3.4.2, or 3.6.2.

3.10.8 INSTALLING THE RAYCHEM SUPERVISOR SLAVE SERVER

To start the RAYCHEM Slave Server installation, insert the "RAYCHEM Supervisor Disk 1 – Application and Utilities" CD (SQL versions) into the PC's CD-Rom drive. Navigate to the Installation folder and double click on the RAYCHEM SupervisorSlaveServerSetup.exe file. The installation begins by checking the computer for software components that are required to run RAYCHEM Supervisor. If there are some required components missing, it will install them for you. You may be asked to reboot your computer during the installation of those components, please select Yes to reboot.

🐞 Raychem Supervisor Slave Server Setup	×
The following components will be installed on your maching	ne:
Microsoft NET Framework 4 (x86 and x64)	
Do you wish to install these components?	
If you choose Canad, actus will suit	
n you choose cancel, setup will exit.	

Figure 3.10.35 Setup screen showing missing components to be installed

If there are no missing components the "Welcome to the RAYCHEM Supervisor Slave Server Setup Wizard" screen will appear. Click on "Next" to continue to the License Agreement.

🖟 Raychem Supervisor Slave Server Setup	_		×
Welcome to the Raychem Supervisor Slave Server Setup Wizard	n	Vent R	AYCHEM
The installer will guide you through the steps required to install Raychem Supervisor Slave Server on your computer. This software requires Microsoft .NET Framework 4.0, Microsoft Data Access Components (MDAC) version 2.7 or higher, Microsoft SQL Server 2000 or higher, or Microsoft SQL Express.			
WARNING: This computer program is protected by copyright law and intern Unauthorized duplication or distribution of this program, or any portion of it, r or criminal penalties, and will be prosecuted to the maximum extent possible	ational tr nay resul under th	eaties. t in severe e law.	e civil
Cancel <u>B</u> ack		<u>N</u> ex	

Figure 3.10.36 Welcome screen for RAYCHEM Supervisor Slave Server installation

🛃 Raychem Supervisor Slave Server S	Setup	-	_		×
License Agreement			nV	ent RAY	CHEM
Please take a moment to read the licens Agree", then "Next". Otherwise click "C	e agreement now. If y ancel''.	ou accept the terr	ns bel	ow, click '	1
nVent Thermal, LLC					^
Raychem Supervisor™ Progra	m Software License A	greement			
PLEASE REVIEW THE FOLLO LICENSE AGREEMENT (THE AGREEMENT BETWEEN YOU ("NVENT THERMAL"). THE TE THE RAYCHEM SUPERVISOR	WING TERMS AND C "AGREEMENT") CAR I, THE END USER, AN RMS OF THIS AGREI R PROGRAM, THIRD I	ONDITIONS OF THE EFULLY. THIS IS ND NVENT THERM EMENT GOVERN PARTY SOFTWAR	HIS SO A LEG MAL, LI YOUF E IF	OFTWARE BAL LC VUSE OF	*
◯ I <u>D</u> o Not Agree	● I Agree				
	Cancel	<u>B</u> ack		<u>N</u> ext	

Figure 3.10.37 License Agreement for RAYCHEM Supervisor Slave Server

Continue with the next few screens until t	the Installation complete screen.
--	-----------------------------------

🔀 Raychem Supervisor Slave Server Setup	—		×
Installation Complete	n	Vent R	AYCHEM
Raychem Supervisor Slave Server has been successfully installed. Click "Close" to exit.			
Please use Windows Update to check for any critical updates to the .NET F	ramewo	ork.	
Cancel <u>B</u> ack		<u>C</u> lose	e

Figure 3.10.38 RAYCHEM Supervisor Slave Server Installation Completed

3.10.9 STARTING THE RAYCHEM Supervisor SLAVE SERVER SERVICE

The RAYCHEM Supervisor Slave Server service should now be started. If for some reason it is not, please follow the methods described in Section 3.2.2, 3.4.2, or 3.6.2. The Windows Services are listed in the Services Applet, under Control Panel->Administrative Tools\Component Services.

3.10.10 INSTALLING RAYCHEM SUPERVISOR CLIENT

To start the RAYCHEM Client installation, insert the "RAYCHEM Supervisor Disk 1 – Application and Utilities" CD (SQL versions) into the PC's CD-Rom drive. Navigate to the Installation folder and double click on the RAYCHEM SupervisorClientSetup.exe file. The installation begins by checking the computer for software components that are required to run RAYCHEM Supervisor. If there are some required components missing, it will install them for you. You may be asked to reboot your computer during the installation of those components, please select Yes to reboot.

🐞 Raychem Supervisor Client Setup	×
The following components will be installed on your machine:	
Microsoft .NET Framework 4 (x86 and x64)	_
 Do you wish to install these components?	
If you choose Cancel, setup will exit.	
Install Cancel	

Figure 3.10.39 Setup screen showing missing components to be installed

If there are no missing components the "Welcome to the RAYCHEM Supervisor Client Setup Wizard" screen will appear. Click on "Next" to continue.



Figure 3.10.40 Welcome screen for RAYCHEM Supervisor Client installation

Raychem Supervisor Client Setup			_		×
License Agreement			nVe	ent RAY	СНЕМ
Please take a moment to read the licens Agree", then "Next". Otherwise click "C	e agreement now. If you ancel''.	u accept the te	erms belo	ow, click ''	1
nVent Thermal, LLC					^
Raychem Supervisor™ Progra	m Software License Agr	eement			
PLEASE REVIEW THE FOLLO LICENSE AGREEMENT (THE AGREEMENT BETWEEN YOU ("NVENT THERMAL"). THE TE THE RAYCHEM SUPERVISO	WING TERMS AND COI "AGREEMENT") CAREF I, THE END USER, AND RMS OF THIS AGREEM R PROGRAM, THIRD PA	NDITIONS OF FULLY. THIS I NVENT THEF MENT GOVERI ARTY SOFTWA	THIS SC S A LEG RMAL, LL N YOUR RE IF	OFTWARE AL .C USE OF	*
◯ I <u>D</u> o Not Agree	Agree				
	Cancel	<u>B</u> ack		<u>N</u> ext	

Figure 3.10.41 License Agreement for RAYCHEM Supervisor Client

Continue with the next screens until the Installation complete screen.
--

🕌 Raychem Supervisor Client Setup			—		\times
Installation Complete			nv	lent RA	YCHEM
Raychem Supervisor Client has been successfu Click "Close" to exit.	ully installed.				
Please use Windows Update to check for any o	critical update	s to the .NET Fr	ameworl	k.	
	Cancel	<u>B</u> ack		<u>C</u> lose	

Figure 3.10.42 RAYCHEM Supervisor Client Installation Completed

You can now start the RAYCHEM Supervisor Client software by locating the RAYCHEM SupervisorClient icon on your desktop and double click on it.



Figure 3.10.43 RAYCHEM Supervisor Client Icon

3.11 UNINSTALLING RAYCHEM SUPERVISOR

Prior to removing any RAYCHEM Supervisor components from your computer system, back up your RAYCHEM Supervisor database. (Refer to Section 14.2.1 in the RAYCHEM Supervisor Operations Manual (H57576) for instructions on the proper backup procedure.)

3.11.1 UNINSTALLING RAYCHEM SUPERVISOR MASTER SERVER

You may remove RAYCHEM Supervisor Master Server from your computer system by following these steps:

- 1. Click the START button, then Select Control Panel.
- 2. Double-Click Add/Remove Programs.
- 3. In the list of installed programs, select RAYCHEM Supervisor Master Server. Click on the Remove button.
- 4. Follow the instructions that appear on the screen.

🐞 Add or Rem	nove Programs			_ 🗆 ×
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	•
C <u>h</u> ange or Remove	🚜 Microsoft .NET Framework 1.1			
Programs	🌄 Microsoft .NET Framework 4 Client Profile		Size	182.00MB
_	Microsoft .NET Framework 4 Extended		Size	46.04MB
Add <u>N</u> ew	Microsoft SQL Server 2008		Size	578.00MB
Programs	Microsoft SQL Server 2008 Browser		Size	7.94MB
5	📙 Microsoft SQL Server 2008 Native Client		Size	4.57MB
Add/Remove	📋 Microsoft SQL Server 2008 Setup Support Files		Size	33.26MB
<u>W</u> indows Components	👸 Microsoft SQL Server Desktop Engine		Size	69.06MB
	Microsoft SQL Server VSS Writer		Size	6.51MB
Col Duomuon	🕞 Oracle VM VirtualBox Guest Additions 4.2.12		Size	3.66MB
Access and	🍓 Raychem Supervisor Client		Size	36.27MB
Deraults	🍓 Raychem Supervisor Master Server		Size	<u>4.91MB</u>
	Click here for support information.		Used	rarely
	To change this program or remove it from your computer, click Change	e or Remove.	Change	Remove
	文 SAP Crystal Reports runtime engine for .NET Framework 4 (32-bit)		Size	198.00MB
	nternet Explorer 8 🖉		Size	4.23MB

Figure 3.11.1 Remove RAYCHEM Supervisor master server

3.11.2 UNINSTALLING RAYCHEM SUPERVISOR SLAVE SERVER

You may remove RAYCHEM Supervisor Slave Server from your computer system by following the following steps:

- 1. Click the START button, then Select Control Panel.
- 2. Double-Click Add/Remove Programs.
- In the list of installed programs, select RAYCHEM Supervisor Slave Server. Click on the Remove button.
- 4. Follow the instructions that appear on the screen.

👸 Add or Rer	nove Programs			_ 🗆 ×
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	•
C <u>h</u> ange or Remove	🚜 Microsoft .NET Framework 1.1			
Programs	😡 Microsoft .NET Framework 4 Client Profile		Size	182.00MB
1	Kicrosoft .NET Framework 4 Extended		Size	46.04MB
Add <u>N</u> ew	👸 Microsoft SQL Server Desktop Engine		Size	69.06MB
Programs	🛃 Oracle VM VirtualBox Guest Additions 4.2.12		Size	3.66MB
1	🍓 Raychem Supervisor Client		Size	36.27MB
Add/Remove	🍓 Raychem Supervisor Slave Server		Size	<u>3.98MB</u>
<u>W</u> indows Components	Click here for support information.		Used	<u>rarely</u>
	To change this program or remove it from your comp	outer, click Change or Remove.	Change	Remove
Set Program	📌 SAP Crystal Reports runtime engine for .NET Framew	work 4 (32-bit)	Size	198.00MB
Access and Defaults	🥖 Windows Internet Explorer 8		Size	4.23MB

Figure 3.11.2 Remove RAYCHEM Supervisor slave server

3.11.3 UNINSTALLING RAYCHEM SUPERVISOR CLIENT

You may remove RAYCHEM Supervisor Client from your computer system by following the following steps:

- 1. Click the START button, then Select Control Panel.
- 2. Double-Click Add/Remove Programs.
- 3. In the list of installed programs, select RAYCHEM Supervisor Client. Click on the Remove button.
- 4. Follow the instructions that appear on the screen.

👸 Add or Rer	nove Programs			_ 🗆 ×
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	•
C <u>h</u> ange or Remove	🕮 Microsoft .NET Framework 1.1			
Programs	Microsoft .NET Framework 4 Client Profile		Size	182.00MB
- <u>-</u>	5 Microsoft .NET Framework 4 Extended		Size	46.04MB
Add <u>N</u> ew	🔒 Microsoft SQL Server 2008		Size	578.00MB
Programs	📒 Microsoft SQL Server 2008 Browser		Size	7.94MB
6	📒 Microsoft SQL Server 2008 Native Client		Size	4.57MB
Add/Remove	📒 Microsoft SQL Server 2008 Setup Support Files		Size	33.26MB
<u>W</u> indows Components	😽 Microsoft SQL Server Desktop Engine		Size	69.06MB
	📑 Microsoft SQL Server VSS Writer		Size	6.51MB
	🕞 Oracle VM VirtualBox Guest Additions 4.2.12		Size	3.66MB
Set Program Access and	🍓 Raychem Supervisor Client		Size	<u>36.27MB</u>
Defaults	Click here for support information.		Used	<u>rarely</u>
	To change this program or remove it from your computer, click (hange or Remove.	Change	Remove
	🍓 Raychem Supervisor Master Server		Size	4.91MB
	★ SAP Crystal Reports runtime engine for .NET Framework 4 (32-t)	oit)	Size	198.00MB
	🟉 Windows Internet Explorer 8		Size	4.23MB



Please refer to Section 15 in the RAYCHEM Supervisor Operations Manual.

APPENDIX A - 780 SERIES/GCC-9000 CABLING

Refer to the 780 Series/GCC-9000 manual for an explanation regarding wiring of the HTC communications, alarm and relay ports. The communications between the master computer and the 780 Series/GCC-9000s may be accomplished using either RS-232 or RS-485, depending on the circumstances. If you are connecting multiple 780 Series/GCC-9000s to the RAYCHEM Supervisor software, you will need to use the RS-485 port and associated wiring to accomplish this.

A-1 RS-232 COMMUNICATIONS TO A 780 SERIES/GCC-9000

Communications to the 780 Series/GCC-9000 may be established via an RS-232 cable plugged into the 780 Series/GCC-9000's SIO#2 port and to one of the serial (COM) ports of your computer. The required cable wiring is shown below.

Personal computer 25-pin male to GCC RS-232C



Personal computer 9-pin male to GCC RS-232C



A-2 RS-485 COMMUNICATION TO A 780 SERIES/GCC-9000

The wiring between the master computer and a 780 Series/GCC-9000 using the RS-485 port is accomplished using either a 2-wire or a 4-wire connection and an RS-485/RS-232 converter plugged into the computer's serial (COM) port.

780 Series SIO1 Wiring Diagram (2-Wire RS-485)



The following chart shows typical distances that may be achieved using the RS-485 communications port. These distances are based on using a 4-wire, 26-AWG shielded twisted pair. Note that speed and distances will depend on actual operating conditions.

Speed	Distance	
1200 bps		4.00 miles (6.4 km)
2400 bps		3.00 miles (4.8 km)
4800 bps		2.30 miles (3.7 km)
9600 bps	1.70 miles (2.7 km)	

The RS-485 converter may be an internal card that plugs into one of your computers' empty slots, or an external device that connects to one of the existing serial ports via a cable. It is strongly recommended that you use an isolated-type interface to protect the computer from any voltage transients that may be introduced into the field wiring.

A-3 780 SERIES / GCC-9000 RS-485 JUMPER SETTINGS

Preparation

- 1. Power down the GCC and unplug its line cord.
- 2. Remove the four screws holding down the GCC's cover.
- 3. Identify the four jumpers on the drawing below.
- 4. Check to see if the existing jumper settings are acceptable.



Note: Static electricity can destroy electrical components! Ground one hand by touching the metal case prior to handling the jumpers.



For 2 Wire RS-485 Operation

- 1. Install jumpers E36 and E40 and use Tx+ and Tx- terminals to connect the RS-485 wiring.
- 2. Install jumper E35 for the termination resistor if this is the last (or furthest) GCC.

For 4 wire RS-485 Operation

- 1. Remove jumpers E36 and E40, if present, and use all four terminals Tx+, Tx-, Rx+, and Rx- to connect the RS-485 wiring.
- 2. Remove jumper E35 and install jumper E37 for the termination resistor if this is the last GCC on the RS-485 communications bus.

B-1 INSTALLATION ERRORS

Cannot install Master Server due to database error

- Ensure that the Microsoft SQL Server is properly installed and running on the computer where you are installing RAYCHEM Supervisor.
- · Verify that the Master Server name has been typed in correctly.
- If RAYCHEM Supervisor Master Server does not install, ensure that there is no MSSQL file in the folder C:\Program Files\Microsoft SQL Server. This may be left over from a previous installation and will prevent the installation from completing.

Install error 1604 encountered installing Crystal Reports Runtime Engine

• Try running the installation setup again. This might happen if the installation setup files are stored in a network drive instead of the local drive.

Unexpected Installation errors encountered

If there are unexpected errors encountered during the installation, check that the Windows Operating system meets the minimum software requirement needed to install RAYCHEM Supervisor. Upgrade to the latest version if possible.

B-2 COMMUNICATION ERRORS

Communication Failures

When RAYCHEM Supervisor is connected to GCCs and HTC-direct controllers using a 2-wire RS-485 configuration make sure that the Tx Delay setting for each GCC and HTC-direct controller is set to at least 0.06 seconds. This will ensure that the GCC or HTC-direct devices do not start to transmit a reply until RAYCHEM Supervisor has turned off its driver.

B-3 OTHER ERRORS

Some text does not display properly in the "Help About" screen

• If you are using McAfee Virus Scan software, you may have to disable the "Buffer Overflow Protection" option in the McAfee setup to eliminate this problem.

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